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Ferri Sulph., B.P. ... ... 80 grains
Liq. Calumbæ, *pro Inf.*, FLETCHER
,, Aurant., ,, ,, of each 4 oz.
Aq. Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of one ounce each Inf. Calumbæ and Inf. Aurantii. Cost about 6*d.* per pint.

EXPECTORANT.

℞
Liq. Camph. Co., FLETCHER.
,, Ipecac. ,, ... of each 2½ oz.
,, Scillæ *pro Syr.* ,, ... 10 oz.
Syrup Simp. ... ... 20 oz.
Aq. Dest... ... ... to make 80 oz.

Adult dose: One drachm, containing the equivalent of 15 mins. each Tinct. Camph. Co. and Vin. Ipecac., and 1 drachm Syr. Scillæ. Cost about 1*s.* 3*d.* per pint.

DIAPHORETIC.

℞
Liq. Ipecac., FLETCHER ... ... 6 drs.
,, Ætheris Nit. ,, ... 2½ oz.
,, Ammon. Acet. Conc., FLETCHER 16 oz.
Aq. Dest... ... ... to make 80 oz.

Adult dose: Two drachms, containing the equivalent of 10 mins. Vin. Ipecac., 30 mins. Sp. Æth. Nit., and 1 drachm Liq. Ammon. Acet. Cost about 6*d.* per pint.

BITTER STOMACHIC.

℞
Liq. Potassæ, B.P.
,, Card. Co., FLETCHER
,, Rhei, *pro Inf.* ,, ... of each 2 oz.
,, Gent. Co. ,, ,, ... 4 oz.
Aq. Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of half an ounce Inf. Rhei and one ounce Inf. Gent. Co. Cost about 7*d.* per pint.

CHRONIC RHEUMATISM.

℞
Liq. Colchici, FLETCHER ... ... 2 drs.
,, Gent. Co. ,, ... 5 drs.
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Aq. Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of 12 mins. Tinct. Colchici. Cost about 3*d.* per pint.

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℞
Potass. Nit. ... ... 1½ oz.
Liq. Hyoscyami, FLETCHER.
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Aq. Camph. Conc., FLETCHER. of each 2 oz.
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Adult dose: One ounce, containing the equivalent of 15 mins. Tinct. Hyoscyami and 30 mins. Sp. Æth. Nit. Cost about 6*d.* per pint.

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℞
Potass. Iodid. ... ... ½ oz.
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Liq. Belladon., FLETCHER
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,, Gent. ,, ... 4 oz.
Aq. Chloroformi Conc., FLETCHER ... 2 oz.
,, Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of 15 mins. each Tinct. Belladon. and Vin. Ipecac. Cost about 9*d.* per pint.

HEPATIC APERIENT.

(After Abernethy.)

℞
Liq. Potassæ, B.P. ... ... 2½ oz.
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,, Card. Co. ,, ... 10 drs.
,, Gentian. Co., *pro Inf.*, FLETCHER 4 oz.
Aq. Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of half-an-ounce Inf. Sennæ and one ounce Inf. Gent. Co. Cost about 6*d.* per pint.

HEPATIC STIMULANT.

℞
Sodæ Bicarb. ... ... 1 oz.
Sp. Ammon. Arom., B.P. ... ... 2½ oz.
Liq. Card. Co., FLETCHER ... ... 10 drs.
,, Rhei, *pro Inf.* ... ... 2 oz.
,, Chirettæ, ,, ,, ... 4 oz.
Aq. Dest. ... ... to make 80 oz.

Adult dose: One ounce, containing the equivalent of half an ounce Inf. Rhei and one ounce Inf. Chirettæ. Cost about 8*d.* per pint.

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CONTENTS OF BOX.

	£	s.	d.
1 bottle Medium Coca Wine, retail price	0	4	6
,, Burgundy Coca Wine, ,, ...	0	4	6
,, Malaga Coca Wine, ,, ...	0	4	6
,, Sherry Coca Wine, ,, ...	0	4	6
,, Port Coca Wine, ,, ...	0	4	6
,, Champagne Coca Wine, ,, ...	0	2	9
,, Coca Wine Extract, ,, ...	0	3	6
,, Coca Lozenges, ,, ...	0	1	6
	1	10	3
25 per cent. ...	0	7	6
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5 per cent. ...	0	1	1
	£1	1	8

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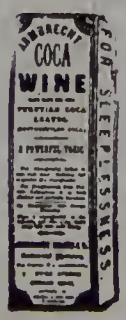

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One gross Blue Seal 2-oz. Bottles "Vaseline" at 26/-, sells at 5d. = £3 0 0

One gross Penny Tins "Vaseline" ... ... at 7/-, ,, 1d. = 0 12 0

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By selling the Penny Tins and Blue Seal at the stated prices, Chemists will realise over 100 per cent. profit on their outlay, besides giving their customers a good and genuine article in place of a poor substitute or imitation.

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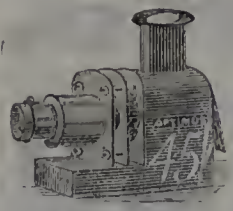
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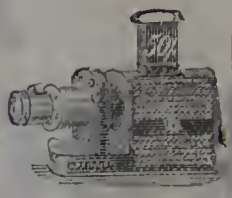
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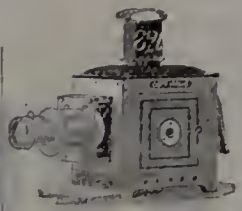
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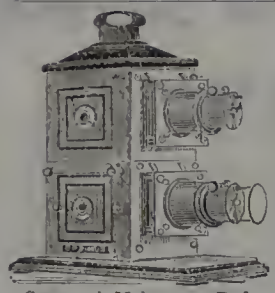

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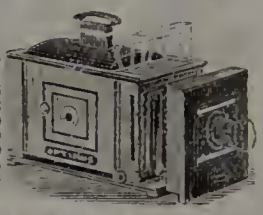
5-in., with	,,	127 0	5-in., and ,,	...	102 6
6-in., no	,,	133 0	6-in., no ,,	...	87 6
6-in., with	,,	151 0	6-in., and ,,	...	115 3
7-in., no	,,	155 0	7-in., no ,,	...	110 0
7-in., with	,,	173 0	7-in., and ,,	...	137 9
8-in., ,,	,,	256 0	8-in., no ,,	...	160 0
9-in., ,,	,,	290 0	9-in., ,, ,,	...	250 0
10-in., ,,	,,	360 0	10-in., ,, ,,	...	285 0
12-in., ,,	,,	580 0	12-in., ,, ,,	...	450 0



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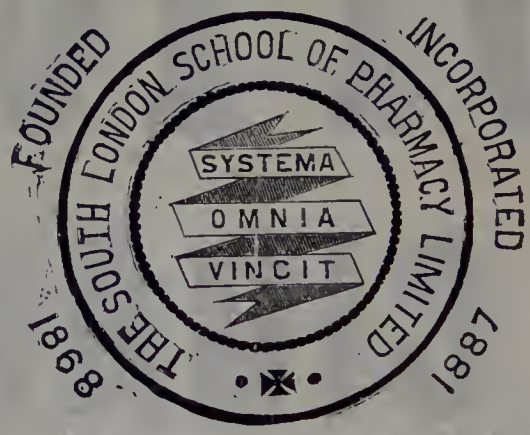

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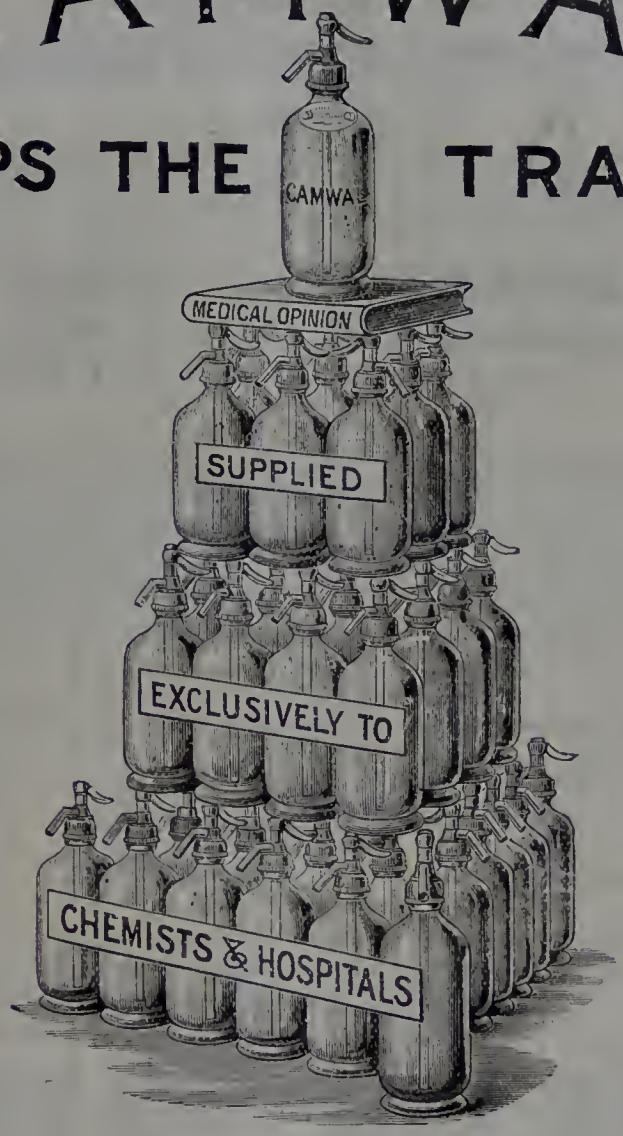

RAISED BY THE PERSISTENT ENERGY AND GREAT CARE OF CHEMISTS

Year	No. of Members	Dividend
1878	119	None
1879	350	None
1880	430	None
1881	540	None
1882	615	3½
1883	708	5

TELEGRAPHIC ADDRESSES:
Rubine, London.
Chemists, Starbeck, Harrogate.
Camwal, Bristol.

STRENGTHENED AND SUPPORTED BY THE APPROBATION OF THE MEDICAL PROFESSION

Year	No. of Members	Dividend
1884	908	6
1885	1,193	6
1886	1,463	8
1887	1,612	7½
1888	1,892	5
1889	2,031	7½
1890	2,088	8½
1891	2163	10%

TELEGRAPHIC ADDRESSES:
Rubine, London.
Chemists, Starbeck, Harrogate.
Camwal, Bristol.

This Company manufactures the various descriptions of Mineral Waters of the highest class and of specified formula, and supplies **ONLY** Chemists and Hospitals.

PRICES.

	In Corked Bots.	In Syphons.
Carbonated Water	1/-	1/6
Soda " 5 Grains to Half-Pint	1/-	1/6
Soda " B.P. 15 " "	1/-	1/6
Potash " 5 " "	1/-	1/6
Potash " B.P. 15 " "	1/-	1/6
Seltzer	1/-	1/6
Lemonade	1/-	2/6

	In Corked Bots.	In Syphons.
Lime Juice	1/-	2/6
Ginger Ale	1/-	2/6
Ginger Beer, Glass	1/-	2/6
Lithia, B.P., 5 grains to Half-pint	1/8	2/6
Iron and Quinine Water	1/8	—
Mineral Acid	1/8	—

Syphons, 24*s.* per dozen. Cases—3 dozen 3*s.* 6*d.*; 4 dozen 4*s.* 6*d.*; 6 dozen 5*s.* 6*d.* each. Empties allowed for at same prices.

3d. per dozen charged extra for the delivery of Syphons in London.

SYRUPS.

In 26-oz. bottles, handsomely labelled and capsuled. Raspberry, Strawberry, Cherry, Red Currant, Black Currant, Pine Apple, &c., 8/- per dozen. Lime Fruit Cordial, 6/6 per dozen. Bottles charged 1/- per dozen, and allowed for on return.

☞ A holder (Chemist) of £1 share is entitled to all the advantages of this Association.

SAMPLE CASE OF WATERS SENT FREE.

Handbills with Name and Prices supplied gratis to Shareholders.

The Chemists' Aerated and Mineral Waters Association, Limited,

LONDON, HARROGATE, & BRISTOL.

EXCHANGE COLUMN.

This Section of "The Chemist and Druggist" must be closed for press by Wednesday morning's post of each week. Remittances payable to EDWARD HALSE.

TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of The Chemist and Druggist, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

DEPOSIT OF MONEY.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us, accompanied by a commission of 6*d.* if the amount is £3 or under; and 1*s.* if over that sum. We acknowledge receipt of deposit to both parties, and hold the money until we are satisfied that either the goods are returned to their original owner or the purchase is completed.

Postal orders and cheques sent as deposit must be made payable to Edward Halse, and crossed "Martin's Bank (Limited)."

FOR DISPOSAL.

Formulæ.

Genuine recipes.—Carbolic sheep-dip, arsenical dip, butter-colouring, 3*s.* 6*d.* each. 65/40.

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Great Sacrifice.—Moonseed Bitters, Pills, Ointment, all sizes, at half retail prices; new stock, perfectly clean; cash with order. Adam, Chemist, Pigott Street, Birmingham.

Educational.

Southall's materia medica cabinet; all fresh specimens; Smith's "Student's Latin grammar"; what offers? J. S., 68 Grosvenor Square, Stalybridge.

Shop Fittings.

Two nests mahogany drawers, 6 feet; cheap. Skewes, 2 Upper Street, Islington.

Job line.—1,000 new ointment-jars, blue canopy covers, &c., at the following low prices: ¼-lb., 3*s.*; ½-lb., 6*s.*; 1-lb., 9*s.*; 2-lb., 12*s.*; 4-lb., 15*s.* doz. Also 500 blue syrups, plug stoppers: 20-oz., 7*s.* 6*d.*; 30-oz., 9*s.*; 40-oz., 12*s.* doz. Natali, 184 Aldersgate St., London.

Drawers, mahogany, 12 ft. run, with shelves, lockers, cornice, and pilasters, second-hand, 15*l.*; glass-fronted counter to match, 10 guineas; dispensing-screen, mirror centre, 7 ft. long, 7*l.* 10*s.*; sponge-case, counter-case, bottles, carboys, and entire fittings of a first-class shop, in good condition, for sale, together or separate. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

For sale.—Handsome oak and mahogany counter, 21½ ft. long, 3 ft. wide, glass cases in front; very superior mahogany dispensing-counter, 4 glass cases in front, 10½ ft. long; 2 fine specie-jars, 35 inches high; massive mahogany stands, oak and mahogany wall-fixtures, counter-cases, sponge-case, shop-rounds, pots, &c.; also large copper still, pewter worm, in excellent condition. Plumley, Bristol Bridge, Bristol.

Miscellaneous.

Several specie-jars, carboys, upright glass case, and oil-tanks. Key, Pontypridd.

A cheap lot of sundry patents; all in good condition; list sent. 1 Colonnade, Hawkhurst, Kent.

Twenty-four Winchesters, ol. morrhuæ Norwegian, extra Nov. 1891; offers for whole or part. 125/14.

Cheap.—Higginson's enema syringes, brass-mounted do., for cash or exchange. Orchard, Salisbury.

Twenty-eight lbs. ground white pepper, 9*d* per lb.; will exchange for patents. "Chemist," 26 London Road, Liverpool.

Copper steam-jacketed evaporating-pan, 7 feet diameter; copper still, 100 gallons, heated by gas. Bennett, Sons & Shears, 167 Kingsland Road, N.E.

For Sale, second-hand.—Tincture-press (small), screw and hydraulic combined; centrifugal (small), 8-in. gun-metal basket, suit school; warehouse crane, 4 ft. jib, windlass, fast and slow motion; wood tank, 3 ft. 6 in. × 2 ft. × 1 ft., with draw-off cock, lined with lead, heensed for bottle-washing; pump (lift and force) on wood plank, 3 in. gun-metal barrel. Copper Works, 85 New Rd., Whitechapel, E.

Nine original bottles ol. citronelle (Winter's), 10 Dobson's gripe-drench, 3 dozen Dobson's cleansing-drench, 1 dozen Dobson's mange-lotion (dogs), 1 lb. 1½*d.* Pond's extract, 2 2*s.* Sequah's oils, 1 Warner's rheumatic cure, 1 Warner's diabetes cure, Southall's model boat (soiled); what offers? 117/39.

Eguisier's (15 oz.) irrigateur (new), in lock-up deal case, 7*s.* 6*d.*; Tome's "Dentistry" (14*s.*), good condition, 7*s.* 6*d.*; counter-scales, as Maw's fig. —, 21*s.*, 11-in. beam; Martindale's "Extra Pharmacopœia," 1st edit., 2*s.*; Tanner's "Practice Medicine," 2 vols. (21*s.*) for 10*s.* 6*d.* Smart, Littlehampton.

Chest-protectors, scarlet felt, flannel, and chamois, 20 per cent. off list prices; portable electric-bells, battery, push, 20 yards of wire, complete, easily fixed, 12*s.*; "King of the Road" lamp for bicycle, 7*s.* 6*d.*; superior mahogany invalid's Merlin chair, in morocco, cost 14*l.*, take 6*l.* Botham, Chemist, Manchester.

WANTED.

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Framed glass tablet, "Dispensing Department," not exceeding 7 ft. long. Key, Pontypridd.

Pereira's "Materia Medica." Price and particulars, Frank Wild, 185 Oxford Street, Manchester.

Address Wanted.

Allen C. Rose (of Aston, an actor, calling himself Allen) and J. Harrison, travelling photographers, trading as Rose, Harrison & Co. Jackson, Chemist, Preston.

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1	2	3	4	5	8 pint.
5/6	6/2	7/	8/	9/11	15/6 each.

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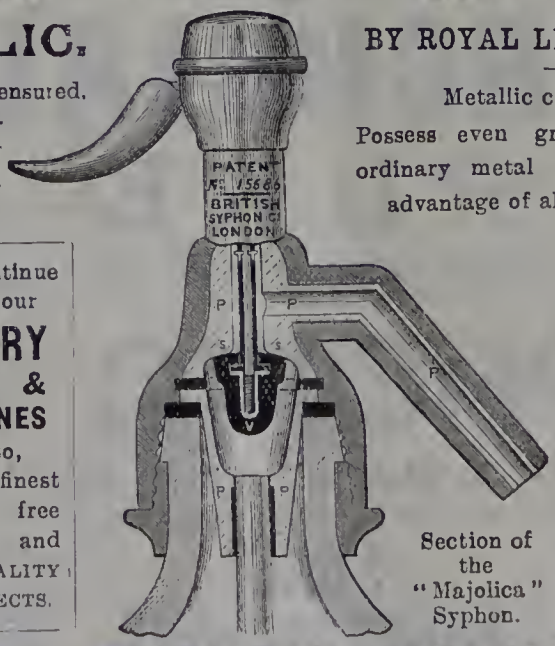

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WE APPEND A LIST OF THE OILS ABOVE ALLUDED TO.

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„ CARAWAY, from selected English Cultivated Seeds. (The quality usually sold as English is drawn from Dutch Seed.)
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„ CINNAMON, from the Finest Selected Bark.
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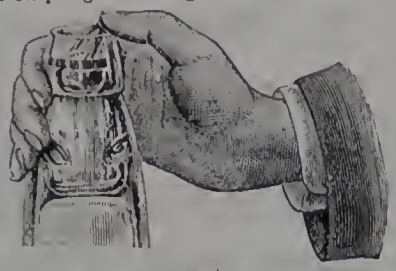

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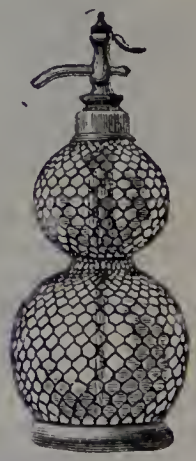

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On ¼-gross Cards .. .. 5/6 and 6/6

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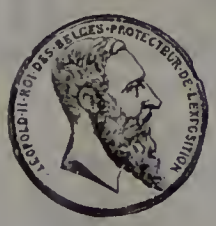

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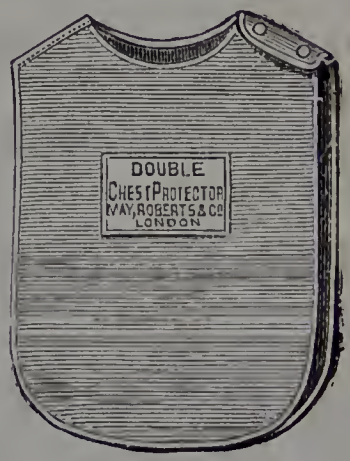

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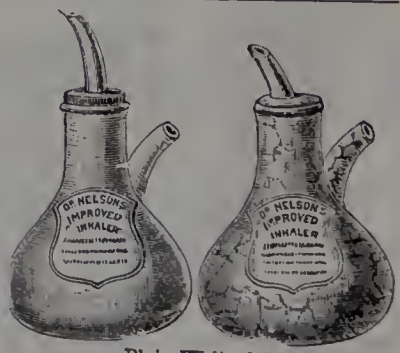

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Taylor, A. J., & Co. (Arabic, &c.)
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Chesebrough Mnfg. Co.
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Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke
HERBALISTS
Newball & Mason
Potter & Clarke
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Keene & Ashwell
Leath & Ross
Myers, G.
Thompson & Capper
Watson & Wates
HOSPITALS
London Homœopathic
HYPOPHOSPHTES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Symes & Co.
Tupke & King
Tyrer, Thomas, & Co.
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Anderson & Adams
Hockin, Wilson & Co.
Lynch & Co.
Maw, S., Son, & Thompson
Spirone, Co., The
Toogood, W.
INK [SEE MARKING INKS]
Bewley & Draper
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Keating, T.
Maw, S., Son & Thompson
Sanford & Co.
Steiner & Co.
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London and Lancashire Fire Insurance Co.
KETCHUP
Tyrer, P.
KOLA
Armbrecht, Nelson & Co.
Christy, T., & Co.
Van Hargan, J.
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Ewen, J., & Sons
LIME JUICE
Idris & Co.
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Haynes, G.
Liverpool Lint Co.
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Newsoms, C.
Robinson & Sons
Seabury & Johnson
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Fuerst Bros.
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Allen & Hanburys
Blyton, Astley & Co.
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Hill & Son
Kerfoot, T. Pascall, J.
Raimes & Co.
Randall & Son
Stern, G. & G.
Warrick Bros.
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Melin, C.
Ohlson, A.
Pontifex & Wood (Lim.)
Werner & Pfleiderer
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Dinneford & Co.
Evans, Sons & Co.
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Hill & Sons, A. S.
Korfoot, T. (Citrate)
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Day & Sons (Veterinary)
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We have claimed that these are the only Chest Protectors in the market which are manufactured in accordance with strict scientific principles, and are therefore the only goods of their class which can be sold with pleasure by a body of scientific men. The rapidity with which they have grown into favour shows us conclusively that our contention is endorsed wherever pains are taken to investigate it.

A SCIENTIFICALLY PERFECT CHEST PROTECTOR must satisfy the following conditions:—

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(3) There must not be the slightest suspicion of an injurious chemical, used either as a dye or in process of manufacture. The materials of which "FURFELT" Chest Protectors are composed are in the identical unsophisticated state in which they occur in Nature.

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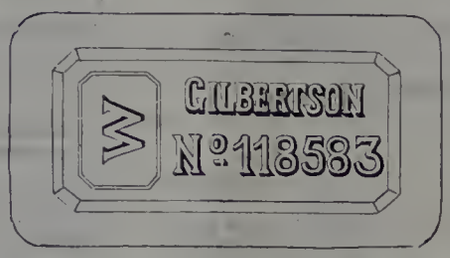
Being the Inventors of the Dispensing Bottles with rounded corners, we beg to call the attention of the trade to the fact that we supply this shape, now universally known as

GILBERTSON'S DISPENSING BOTTLE

made exclusively for ourselves by the Manufacturers of the **W** Brand. and this Trade Mark appears on the bottom of each bottle, in conjunction with our Name and Number, which is a guarantee of superior quality and uniform excellence.



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PRICES PER GROSS OF DISPENSING BOTTLES.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 oz.	
10/0	10/0	10/0	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/0	35/0	44/0	53/0	GREEN
10/8	10/9	11/0	12/0	12/6	15/0	15/0	24/0	24/0	27/0	34/6	44/0	60/0	69/6	WHITE

IN CRATES (about 6 Gross Assorted).

Not less than 1 gross of a size.

1	1½	2	3	4	6	8	10	12	16	20	24	32	40 oz.	
9/6	9/6	9/6	10/9	10/9	11/9	11/9	19/0	19/0	21/6	27/0	32/0	41/0	50/0	GREEN
10/3	10/3	10/6	11/6	12/0	14/0	14/0	23/0	23/0	26/0	33/6	41/0	56/9	65/0	WHITE

CRATES AND CARRIAGE FREE.

Casks for EXPORT are charged, but delivered F.O.B.

NAME PLATES EXTRA, AT USUAL RATES.

IMPROVED SALINE.

MEDICAL TINT

4	6	8 oz.
16/9	20/0	20/0

per gross.

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This Bottle is made with rounded corners without altering its flat surfaces, which not only adds to its appearance, but reduces breakage to a minimum, *ensuring accurate capacity*, *simplifying labelling*, and producing a perfect appearance when wrapped.

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(Registered and Provisionally Protected, No. 1651.)

THE NEW FORM FOR MEDICINAL ADMINISTRATION.

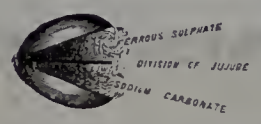
"PALATINOID" & 'BI-PALATINOID'

Before immersion in water.

"PALATINOID"

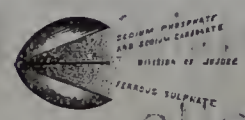
After three minutes' immersion in water at normal temperature of stomach.

"BI-PALATINOID" (FERROUS CARBONATE)



After three minutes' immersion.

"BI-PALATINOID" (FERROUS PHOSPHATE)



After three minutes' immersion.

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ESTABLISHED 1859.

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Supplied regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

The Pharmaceutical Association of New Zealand.

The Pharmaceutical Society of Queensland.

The Pharmaceutical Society of South Australia.

Tasmanian Pharmaceutical Society.

Otago Pharmaceutical Association.

South African Pharmaceutical Association.

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SUMMARY.

WE print a number of recent wills.

OUR correspondence columns contain several seasonable letters.

SOME formulæ for cures for cold in the head are given in this issue.

TWO West-end perfumers have, during the past week, been sued for debt.

OUR Liverpool correspondent sends fuller particulars of the Cheshire bromine discovery.

THE case of hydrate-of-potash-poisoning has ended satisfactorily for the seller of the stuff.

WE report the conclusion of the examination in bankruptcy of Mr. Powell, the proprietor of Moonseed Bitters.

OUR "Pharmacist Abroad" has got to Hamburg, of which important commercial centre he gives his impressions.

OUR Paris correspondent adds to his letter a report of the meeting of the Pharmaceutical Society there, held on Wednesday.

MESSRS. WANKLYN AND JOHNSTONE have discovered a new series of fatty acids, which they think will be of great commercial importance.

MR. JOSEPH BOSISTO has been advocating greater attention to the perfume industry in Australia. His remarks appear in our Colonial News.

AT Glasgow, last week, Mr. W. L. Currie discoursed pleasantly and humorously on shop-life, telling assistants how they may utilise their time and cultivate business habits.

MR. RUSHTON'S paper on "Dental Drugs" contains several useful suggestions in regard to dental practice. It was read at the Chemists' Assistants' Association and elicited a fair discussion.

MR CARTEIGHE could not preside at the Pharmaceutical Council on Wednesday, owing to hoarseness. This is the first time, we believe, that Mr. Carteighe has been absent during his presidency.

CONTINUED interest is taken in Ireland regarding the quality of drugs supplied to dispensaries. Our reports this week show that the contractors for two unions have, on the whole, the best of it.

IN our Editorial Notes we discuss the present position of ergot of rye, which has reached a high price. Some comments are made regarding the evening meetings of the Pharmaceutical Society, which this winter will be devoted to popular lectures, and we give a preliminary comment on "Mendeléeff's Chemistry," the English translation of which, in two volumes, is published this week. The book is of a unique character.

AT the meeting of the Pharmaceutical Society on Wednesday the Council placed on record its appreciation of the services to pharmacy and the Society rendered by the late Mr. T. H Hills, and several members spoke feelingly of their deceased friend. It was announced that Mr. Hills had bequeathed 1,000*l.* to the Benevolent Fund, as well as Landseer's portrait of Jacob Bell and Millais's portrait of Mr. Hills to the Society. Nearly all the business transacted was of a routine character. Mr. Evans initiated a brief discussion on the policy of buying ground-rents, but that was more of political than practical importance.

IT will be seen from our Legal Reports that the decision has been given in the Glasgow linseed-meal case. The Somerset House certificate of analysis stated that the meal contained 20 per cent. of starch added in the form of barley-meal and ground rice. In the face of this conviction could not be avoided.—The same section of our paper contains a large number of reports. At Liverpool herb-beer has been declared to be a refreshment, and an herbalist who sold it was fined.—At the London Mansion House Court, in a petroleum case, the ingenious defence was raised that, as the spirit was not on the premises longer than an hour, there was no offence, since the Act provides a fine of so much per day. The Lord Mayor, however, attached no importance to this.—Radam's Microbe-killer Company have obtained an injunction to prevent the *Financial News* publishing the formula for the killer.—It was decided on Thursday that an apothecary may my call himself surgeon or use unrecognised "M.D."

MESSRS. T. SEYMOUR MEAD & CO., of St George's Hall Manchester, inform us that a young man, falsely representing himself as a junior partner in their firm, has lately been calling on London merchants with whom they do business, and, after conversing on various trade matters, and promising orders, has left the premises, shortly to return in a hurried manner and ask for a small loan. Messrs. Mead & Co. wish us to say, as a warning, that they know nothing whatever of the person in question, who represents himself as Mr. Mead, jun.

b

English News.

CHEMISTS' ASSISTANTS' ASSOCIATION.—At next week's meeting, Mr. E. B. Sherlock will read a paper on "Floral Formulæ and Floral Diagrams."

MIDLAND COUNTIES CHEMISTS' ASSOCIATION.—A meeting will be held at the Mason College, Tuesday, December 8, 1891, at 8 30 P.M., when Mr. H. W. Jones, F.C.S., Coventry, will read a paper, entitled "Photography—Chemicals and Processes."

LEEDS CHEMISTS' ASSOCIATION.—The following are the officers for the current year:—President, George Ward, F.I.C.; vice-president, E. Yewdall; hon. treasurer, S. Taylor; hon. librarian and curator, W. D. Pollitt; hon secretary, F. W. Branson; council, Richard Reynolds, George Briggs, C. G. Catterall, P. Jefferson, G. W. Wolfolk, R. J. Maudson: auditor, Edward Brown.

DISMISSAL OF CHEMICAL-WORKERS AT ST HELENS.—About 140 men employed in the Greenbank Alkali Works, St. Helens, belonging to the United Alkali Company, have received a week's notice to terminate their employment. The notice expires next Wednesday. It is expected that the portion of the works in which they were employed will be stopped for three or four weeks, owing to the overcrowded stocks on hand.

THE CHEMISTS' BALL.—Mr. Alfred H. Mason (46 Jewin Street, E.C.), honorary secretary to the Chemists' Ball Committee, intimates by circular that the ball will take place at the Portman Rooms, Baker Street, W., on Wednesday, January 20 next. The list of stewards is being made up, and those who desire to have their names added to it should communicate with Mr. Mason without delay. This simply means two tickets—one for a lady and one for a gentleman.

MANCHESTER PHARMACEUTICAL ASSOCIATION. — The second meeting of the session will be held in the Memorial Hall, Albert Square, on Wednesday, December 9, at 7·45 P.M. when a lecture on "The Microscopical Characters of the more important Official Drugs" will be given by Mr. William Kirkby, F.L.S., Lecturer in Pharmacognosy, Owens College. Microscopical sections will be shown by aid of the lantern. This being an open meeting, all connected with pharmacy are invited to be present.

THE GENERAL MEDICAL COUNCIL, at its meeting last week, restored the name of Mr. J. F. Leeson to the medical register. Mr. Leeson's name had been removed on account of his connection with an electropathic-belt establishment. Mr. John Keys wanted his name restored, but the Council would not "on this occasion." The following names were removed:—Caleb Charles Whitefoord, M.R.C.S., L.S.A., late of 117 Albany Street, N.W., now undergoing five years' penal servitude for felony; Gavin Steel Scott, M.B., C.M. Glas., 188 Sherlock Street, Birmingham; and Richard Davies Barree Gunn, L.R.C.P. and S.E., and L.F.P.S. Glas., Droylsden, near Manchester; these two for carrying on practice by means of unqualified assistants, which the Council considered improper conduct.

MR. SARGENT'S NOTIONS.—At a meeting of St. Luke's (Middlesex) vestry on Tuesday, Mr. Churchwarden Griffin presiding, the clerk (Mr. G. W. Preston) read a letter from Mr. Sargent and the "Chemists' Association" relative to some illicit trading (which has already been referred to in THE CHEMIST AND DRUGGIST). Mr. Geo. Eade, pharmaceutical chemist, of Goswell Road, said he had ascertained that this Mr. G. W. Sargent had been writing round to various chemists on behalf of his committee, and those chemists who had written for particulars had received no reply. THE CHEMIST AND DRUGGIST, the professional organ, had taken the matter up, and he (the speaker) advised the vestry not to take notice of such absurd nonsense. He moved that Mr. Sargent's letter be simply received. Mr. Churchwarden Easterling seconded, and it was adopted.

SCIENCE EXAMINATIONS.—The Education Committee of the Privy Council has announced that henceforth only first-class certificates will be given in the elementary stages of the science examinations. The second class is abolished, and grants will only be paid on account of pupils who take at least 60 per cent. of marks. The alteration is rendered necessary by the increasing numbers of candidates, and the intention is to keep back all who are unlikely to come up to the minimum standard. If any candidates fail, a deduction will be made from the grants for those who pass equal to the cost of examining those who failed. In future the payments on results will be 2*l.* for a pass in the elementary stage, 5*l.* and 2*l.* 10*s.* for a first or second-class respectively in the advanced stage, and 8*l.* and 4*l.* for a first or second class respectively in honours, in each subject of science. The payments for practical chemistry will be 3*l.* for a pass in the elementary stage, and 6*l.* and 3*l.* 10*s.* respectively for a first or second class in the advanced stage.

HYDRATE OF POTASH POISONING.—The inquiry concerning the death of Emma Howell, wife of a grocer at Ravensbourne Street, Greenwich, from hydrate-of-potash poisoning, was resumed on Thursday of last week. [We gave a full report of the case in our issue of November 21.] Mr. Brooks, the apothecary from whom the drug was purchased, said that since the inquiry opened he had sent to wholesale chemists for "hydroate" of potash, and they had sent hydrate of potash. Dr. Thomas Stevenson said he had analysed the contents of the bottle and of the stomach. Death arose from poisoning by hydrate of potash, which was a corrosive poison, known as caustic potash. The solution had been made in a dirty bottle. There was no substance known to chemists as hydroate of potash, and a chemist, if asked for it, would supply hydrate. Deceased's husband swore that the substance was in powder, but the assistant to the chemist said it was in stick form, and this, Dr. Stevenson said, must have been so. After a long inquiry, the jury returned a verdict of "Death by misadventure," exonerating all parties from blame.

MUNICIPAL CHEMISTS' QUARTERS.—At the weekly meeting of the London County Council on Tuesday last one of the committees reported that the Council on November 5, 1889, sanctioned, upon the committee's recommendation, the building of a house and laboratory for the resident assistant chemist at the Barking Outfall, at a total cost of 1,200*l.* It was, however, subsequently decided, instead of erecting these buildings, to adapt certain wooden erections which had been purchased from Messrs. Mowlem & Co., the contractors for the works, for the chemist's residence, at an outlay of 249*l.* Mr. Thudicum, the resident chemist, complained of the condition of his house, the roof of which was stated to be full of leaks, causing not only serious discomfort, but damage to the health of his household. The committee had referred the matter to the architect, who reported that the structure was, in his judgment, wholly unsuitable for a residence of this description, and he had prepared a sketch plan for a new brick building. The committee recommended that the architect should prepare the necessary drawings, &c., with a view to getting tenders for the work. The Council adjourned the consideration of the matter.

LIVERPOOL NEWS.—Our correspondent has interviewed Mr. E. Davies, F.C.S., respecting his claim to have discovered a practical process for the recovery of bromine from Cheshire brine. Mr. Davies said the bromine has been extracted from the spent liquor, or brine, after all the merchantable salt has been worked out. The process employed is the ordinary one—acidulation of the liquor with sulphuric acid, and then treatment with peroxide of manganese, so as to liberate the bromine. It is impossible to say whether it can be produced in paying quantities, as the process, so far, is only in the experimental stage; but in years to come we may not have to rely on the American brine and German mines for our supplies of bromine. It is just possible an important branch of the English salt trade may be developed.

Mr. Jewell, of London Road, Liverpool, has taken over the business of Mr. Cole, Oxford Street, in the same city. We understand Mr. Cole is retiring from the business, and is entering the fruit trade.

Mr. Alfred Shaw, of Brow Bridge, Greatland, Halifax, formerly assistant with the late Mr. Greenall, Waterloo, has purchased Mr. R. P. Roe's branch business at 48 Green Lane, Tuebrook, Liverpool.

A HAYMARKET PERFUMER'S DEBT.—In the Westminster County Court on Tuesday, the Deputy-judge, Mr. Scott, had

before him, on a judgment-summons, the case of Moore *v.* Ravenscroft, in which it was sought to have the defendant committed for non-payment of a debt of 29*l.* The plaintiff's solicitor said that the defendant, Mr. Charles Septimus Ravenscroft, was either the manager or proprietor of a large perfumery business in St. James Street, Haymarket, and no doubt he was well able to pay this debt for which judgment was obtained about a month ago in the Court of Queen's Bench. The defendant said he was only manager to the firm which now carried on business as Ravenscroft & Co., and his salary as such was only 30*s.* per week. He offered to pay 5*l.* in a month, and the balance by instalments of 2*l.* per month. The plaintiff's solicitor said he had reason for suggesting that the defendant was really the proprietor of the whole thing, therefore he should press for a forthwith order, and then the money would be paid. The Judge: Now you are suggesting fraud, and I am not here to try that question. He thought the defendant's offer a reasonable one, and he should, therefore, make an order for the money to be paid as proposed.

THE CHEMIST AND THE VACCINATION ACT.—Before the Torquay magistrates on Monday. Wm. Milne. chemist, was summoned for neglecting to have his child vaccinated. The case had been previously adjourned for defendant's attendance. Having thanked the magistrate for adjourning the case. defendant was about to explain his objections to the Vaccination Act. The bench said they did not wish to hear his objections. Was he guilty or not guilty? Defendant said he should conduct his own case. He was not there to be bullied. The chairman again asked defendant whether he was guilty or not guilty. and Mr. Fortescue (a magistrate) said the bench would conduct the case as they thought fit. Defendant pleaded guilty, and the bench were about to swear the vaccination officer when defendant objected, saying this was not necessary, as he pleaded guilty.

Mr. Fortescue: Will you allow us to conduct this case?

Defendant said if he was to be bullied in that fashion by a red-nosed magistrate he should take his departure. Defendant was evidently about to carry out his threat, but suddenly turned back and shouted, "The Vaccination Act is rotten in its entirety.'

Mr. Fortescue: Put that man out of court. After a struggle. defendant, loudly protesting, was forcibly ejected into the street by three policemen. He was fined 1*l.* 8*s.*, including costs.

SENTENCED FOR BURGLARY.—At Leicester Assizes, on November 26, James Lawrence, aged 26, described as a chemist. but who is not on the register, pleaded guilty to burglariously entering the dwelling-house and shop of William Clarke, trading as the Globe Tea Company, Loughborough, and stealing 69*l.* 15*s.* 9*d.*, on July 1. The prisoner's counsel, in defence, pointed out that the accused was not a member of the criminal class, and up to the moment at which he yielded to the temptation he had held an excellent position. The loss of this respect must be a sufficient punishment. In passing sentence, his lordship said that the offence was one of the most serious that he had had to deal with, and if it were not for the facts which had been mentioned by prisoner's counsel, he should have felt it necessary to inflict a severe punishment, and certainly to give him penal servitude. For a man in his position—a position of trust, a friend of the prosecutor—to obtain his keys in the most contemptible manner, and then to take an impression of them, was a most dastardly act. It showed at once that at the time the prisoner must have been as great a criminal as it was possible for anybody to be. If it had not been for the prisoner's confession, he would have been sent to penal servitude; but assuming that the Recorder of Blackburn did take into consideration the fact that there was another case hanging over his head, he was disposed to deal leniently with the case. Prisoner would have to go to gaol for three months with hard labour.

SHEFFIELD NEWS.—An alarming amount of typhoid fever is at present occurring in the borough of Rotherham and in the adjoining local board districts of Parkgate and Rawmarsh. About 50 cases are reported in Rotherham, and 66 in Rawmarsh and Parkgate, and the spread of the disease is said to be due to the contamination of the water-supply, which is derived from the same source for both districts. The Corporation of Rotherham are the owners of the waterworks, and the Health Committee of the Corporation have obtained analyses of the water from Mr. A. H. Allen, F.C.S., the borough analyst of Sheffield, and from Professor Wanklyn, samples being taken from both the high-level and the low-level systems. Professor Wanklyn's report is reassuring, for he says: "This is excellent drinking-water—quite uncontaminated:" but Mr. Allen's analysis is less satisfactory. He says that the results point to an infiltration of impurity of some kind—such as the drainage from cultivated land, or possibly from some more objectionable source. The figures show that much of the impurity has undergone spontaneous destruction from oxidation; but a change of weather or other conditions may, he says, interfere with the process of spontaneous purification. The Health Committee have recommended to the Corporation the appointment of a sub-committee, with power to take steps for preventing the pollution of the water-supply.

Mr. Robert Watts, the secretary of the Chemists' Society here, is becoming a prominent amateur actor. For some years he has been known as one of our best reciters. Last year he achieved a decided success with the Sheffield Masonic Dramatic Club. At a club performance given last week Mr. Watts played the leading part in "Heroes."

Dr. Sidney Roberts, a well-known local physician, has resigned his position as one of the honorary physicians of the Sheffield Public Hospital and Dispensary. It is his intention to commence practice in London.

BUSINESS IN BOND STREET.—On Tuesday, in the Westminster County Court, an application was made for the committal of Miss Bolton, who was described as a perfumer, carrying on business in Bond Street. The plaintiff stated that the judgment debt was incurred in the way of trade, and had been owing a considerable time, but the defendant adopted every possible method to evade payment. The only portion of the debt which had been paid was paid under an order of committal, and it was not until a warrant was issued that the money was forthcoming. The defendant said she was absolutely deluged with debts of this kind, and she had no means of meeting them whatever. The judge said the defendant was a tradesman in Bond Street, and, as such, he thought she might easily pay 1*l.* per month, and that would be the order he should make. Defendant: What are my other creditors going to do? The Judge: I cannot say.—At the same court, on the same day, an order was asked for against the same defendant in the case of Brunette *v.* Bolton. The defendant said she had not the means of paying, or she would be only too glad to do so. She had a large number of creditors, and, as it was impossible for her to pay their claims, a deed of assignment was made, but the plaintiff refused to be included with the other creditors. The Judge said that a person carrying on business in Bond Street ought to be able to pay something. and he should make an order for committal, suspended two months, which would be ample time to pay the money if the defendant meant paying it at all.

IRISH NEWS.

SCHOOL OF CHEMISTRY.—Negotiations are at present being carried out in connection with securing the recognition of the certificate of the School of Practical Chemistry, conducted by the Irish Pharmaceutical Society, by the universities who grant medical diplomas.

FIRE.—On Tuesday of last week a fire broke out in Messrs. Harrington & Son's chemical factory, Cork. By the efforts of the employés, however, it was kept within the narrowest limits, and in a short space of time entirely subdued. The business of the firm was in no way interfered with.

CHARGE AGAINST A CHEMIST.—At Dublin, on Nov. 28, Arthur James Sims, described as a chemist, was sent for trial on a charge of conspiring, with another prisoner named Anderson, to pass a cheque forged by the latter. The accused had recently been convicted for loitering and sentenced to a month's imprisonment. They were re-arrested on the expiration of the term.

PHARMACEUTICAL CHEMISTS AND PUBLIC APPOINTMENTS.—In accordance with the resolution passed at the

last meeting of the Council of the Pharmaceutical Society of Ireland a deputation, consisting of the Vice-President, Mr. Robinson, Mr. Hodgson, and Mr. Wells, has waited on the Local Government Board by appointment. They explained their views and claims, and received assurance that the matter should receive early attention.

DRUGGIST AND BANKER.—A much-respected member of the old school of Dublin druggists has just passed away in the person of Mr. Pollock, who, over a quarter of a century ago, was a leading member of the firm of wholesale druggists trading as Pollock, Figgis & Co., Capel Street. Mr. Pollock may be little known to the present generation of the trade, having seceded from the Capel Street firm and joined his brother in establishing a high-class family drug business at 52 Upper Sackville Street, where he enlisted the services of his former assistant as manager (Mr. W. F. Wells, sen.). After some time Mr. Pollock went abroad and embarked in the banking line, his former manager succeeding to the business, which is now carried on as W. F. Wells & Son.

DRUGGISTS AT LAW.—At the Queen's Bench Division, Dublin, on November 24, an application was made to remit the case of Gibson *v.* McMullen & McKaig to the County Court Judge of Belfast. The defendants are both druggists in Belfast. The plaintiff, Mr. Charles Gibson, also of Belfast, was in October last negotiating for the disposal of his business. On October 17 a certain Mr. Tetterington, who was likely to buy it, had already removed some furniture into plaintiff's premises, and ordered goods from defendants and from other merchants. It would seem that the negotiations for the sale of the business fell through. Mr. Gibson alleges that he asked both defendants for invoices of their goods so that he might send them back. According to him, however, defendants sent vans and men, who forced open his door and took away the goods. He brings an action for illegally breaking and entering his premises. The court refused the application.

POOR-LAW DRUGS ANALYSED.—The guardians of the Mountmellick Union having forwarded samples of drugs supplied by their contractors (Messrs Leslie & Co., Bride Street, Dublin) to the public analyst, Sir Charles Cameron, the analysis came before their meeting on Saturday last. Samples of the following drugs—viz., liq. ext. cascara sagrada, spt. ammon. aromat., tr. nuc vomicæ, and ol. olivæ—had been analysed, and were reported on as follows:—

Liq. ext. cascara sagrada is an active preparation, and contains the prescribed quantity of alcohol.

Spt. ammon. aromat. is good, but the specific gravity is ·8913, and should be ·836; the difference is not important.

Tr. nuc vomicæ is of standard alkaloidal strength, but contains only 60 per cent. of alcohol; should contain 84 per cent.

Olive oil is adulterated with rape oil.

The contractors, Messrs. Leslie & Co., explained that the analyst had made an error in connection with the percentage of alcohol in tinct. nuc vomicæ, as the theoretical amount of alcohol in this preparation is 67·3 per cent., and not 84 per cent. as stated in the report, and thus the difference would be 7·3 per cent., which might easily be accounted for by evaporation during filtration, &c. The adulteration of olive oil was stated to be due to the fact that, it being an imported article which is often adulterated abroad, the contractors, in common with other firms, were liable to be imposed on occasionally. After a thorough discussion it was agreed by the guardians by a majority of 14 to 5, "That, as Messrs. Leslie & Co. had given invariable satisfaction, no action should be taken in the matter."

THE QUALITY OF DRUGS.—Professor Leebody has analysed some medicines from the Londonderry Union. His report was as follows:—

I enclose result of my analysis of the tinctures. They are all weak, but to what extent that is due to their having been long kept I cannot, of course, say. They are below the proper strength, but free from adulteration, and genuine, although weak.

Mr. David Galbraith, the contractor, had written to the chairman of the board as follows:—

Dear Sir,—I understand that some medicines have been sent forward by your board to be analysed, and have no objection to this regarding every article I supply. But I do object to a few articles being picked up in a cold or damp dispensary, after lying on the shelves for eight months, subject to such unfavourable conditions, as hardly fair.

Mr. Hanna said it was not fair to the contractor to take medicines that had been lying in a country dispensary for eight months. The money paid for the analysis might as well have been thrown away. Some of the doctors ordered three times as much medicine as they wanted, and the result was that they might as well give patients water as the medicine after being kept in a damp place for eight months.

The chairman said as the Local Government Board had ordered the analysis it would be well to send this letter to them along with the report of the analysis.

SCOTCH NEWS.

A GLASGOW MANUFACTURING CHEMIST'S WILL.—On Wednesday last, an inventory of the personal estate left by the late Mr. Joseph Townsend, manufacturing chemist, Glasgow, was lodged with the sheriff clerk of Lanarkshire. The amount of the estate is 6,943*l.*

OPIUM-POISONING.—On Monday afternoon Alexander Gardner, chemist's assistant, residing in Alexandra Parade, was found in Parson Street, Glasgow, in a dazed condition. He was taken to St. Rollox Police-office and examined by Dr. Glaister, who, finding that he was suffering from opium-poisoning, sent him to the Royal Infirmary.

SCOTTISH DRUG DEPÔT (LIMITED).—A step has been taken towards the settlement of the liquidation of this company by an application made in the Court of Session last week by Mr. Galbraith Millar to Lord Stormonth-Darling on behalf of the liquidators, to pay an interim dividend of 10*s.* per 1*l.* The necessary authority to do this is expected to be granted on Saturday.

THE NEW ALKALI-WORKS AT IRVINE.—At a Dean of Guild Court held at Irvine on Tuesday the plans for the new alkali works that are being erected in opposition to the Alkali Union Syndicate were laid before the court and formally sanctioned. The area of the works extends to twenty-five acres, and will include a caustic-soda shed, bleaching-powder and sulphuric-acid chambers, with other buildings. The concern will be registered as "Alexander Walker & Co.'s Alkali Works."

ALLEGED EXTENSIVE THEFTS AND RESET.—In connection with the case of shop-lifting and reset, reported in our last issue, William Jack, twenty-five, warehouse porter, was examined, on November 24, at Aberdeen, before Sheriff Hamilton Grierson, on a charge of having, between August 20, 1890, and November 20, 1891, in the premises, Castle Street, occupied by William Davidson, wholesale druggist, &c., stolen 100 boxes mustard, 100 packages black lead, 12 cases corned meat, 3 casks pepper, 6 cwt. rice, 2 cwt. semolina, 2 boxes raisins, &c., and was committed for trial. Gordon Bruce, general dealer, Causeway End, was also examined on a charge of having, along with Robert Bruce and Christopher Byres, resetted the above articles, and was committed for further examination. Bail was fixed at 100*l.* each.

EDINBURGH GAIETY.—Pharmacists will shortly be in the midst of what promises to be an enjoyable festive season. The Assistants' Association's annual concert and assembly takes place on December 11, while on the 18th the pharmacy students hold their annual supper, for which a musical programme has been arranged. The pharmacy students had originally intended having their annual "hop" in the first week of January, but have decided to postpone it to the end of March, as last year. The senior ball is to be held in the Masonic Hall, George Street, instead of the Assembly Rooms, on January 28. The present committee comprises a number of the younger members of the trade, with Mr. David Maclaren as convener. Several similar gatherings in connection with the employés of the wholesale houses here are in process of arrangement.

PAUPER MEDICINES.—At the monthly meeting of the Glasgow City Parochial Board, held on Monday, a return was submitted showing that during the month there had been 5,474 prescriptions made up in the Parliamentary Road

Dispensary for in-door poor and 1,018 for out-door poor. The return also showed that the out-door poor had 478 prescriptions made up in the following dispensaries, viz :—The Glasgow Apothecaries' Company, 211 ; Messrs. J. & R. Rodman, 108 ; Mr. D. P. Walker, 90 ; and Dr. Dougan, 69. Dr. Lapraik reported through the Medical Committee that the officials in Parliamentary Road Dispensary had dispensed during the year 55,351 prescriptions for in-door poor, and 12,347 for out-door poor ; and that in the same period the outside dispensaries had dispensed 2,848 prescriptions for out-door poor.

THE INFLUENZA EPIDEMIC IN GLASGOW.—The epidemic of influenza is now widespread over the whole of Glasgow. Although possibly less virulent, the disease is more general than on any previous occasion. Chemists are doing a considerable trade in consequence. In the Royal Infirmary so many nurses have been stricken with the disease that on Saturday last it was found necessary to convert one of the flats of the adjoining Blind Asylum into dormitories for the accommodation of the extra nurses. Of the fire brigade there were twenty members laid up with the disease, while among the police, post office, and tramway servants, as well as in private offices and public works, the absences through illness at this time are abnormally large. The editor and two of the sub-editors of a leading Glasgow evening paper are down with the disease ; several of the officials in the county courts are off duty with it ; and it is interfering with the attendance of scholars at the public schools.

FRENCH PHARMACEUTICAL NEWS.

(*From our Paris Correspondent.*)

A LABORATORY EXPLOSION AT THE OLD SORBONNE occurred last Saturday whilst Professor Lacaze-Duthier was conducting some experiments. A bottle of alcohol placed near a chimney burst, and took fire. The bottle of burning liquid fell on M. Lacaze-Duthier, and ran over the floor and furniture of the laboratory. Fortunately the learned professor received but slight burns. The damage done to the laboratory of experimental zoology is, however, considerable.

SUPPOSED ILLEGAL PRACTICE OF PHARMACY.—The house of a certain vendor of bric-a-brac at Roubaix (Nord) was recently being searched by the police, when they discovered a quantity of poisons and pharmaceutical products. These articles, according to the Pharmacy Law, can only be given out upon a doctor's prescription, and their illegal possessor was suspected to be mixed up in an affair of illegal medical practice which had brought about the death of a young girl in the neighbourhood some weeks before.

CONTRABAND ALCOHOL.—The officers of the Paris Octroi have been very active of late in their endeavours to suppress frauds with alcohol. The question arises from the fact that traders have been bringing into the city alcohol declared as denaturalised, and on which dues to the amount of 37f. per 22 gallons, instead of 266f., are paid. The alcohol is afterwards purified and sold as such. The alcohol is denaturalised principally by means of wood naphtha and pyroacetic acid, but it is declared that these impurities can be so far neutralised by chemicals as to render the alcohol fit for the manufacture of liqueurs of pronounced aroma, such as absinthe. Twenty-three actions have been commenced by the municipal authorities during the last fortnight.

TUBERCULIN.—VETERINARY EXPERIMENTS.—Professor Nocard, of the Alfort School of Veterinary Surgery, has given to the Academy of Medicine an account of some experiments on cattle, which, we think, prove the efficacy of tuberculin as a diagnostic of tuberculosis. He first established the fact that a really sound beast was unaffected by his injections. Nor were cows well advanced in calf in any way harmed, while the quantity and quality of milk given remained the same. But some apparently healthy cows thus treated showed bad effects, and upon being killed slight tuberculous symptoms were apparent in the breathing-organs. The animals experimented on were mostly slaughtered a few days or weeks after the injection to enable prompt and careful dissections to be made. The tuberculin was supplied by the Pasteur Institute, and the dose for each injection was about 35 centigrammes, in a 3½-c.c. solution. [These results are directly opposed to those obtained for the Veterinary Department of the British Local Government Board.—ED. *C. & D.*]

ALLEGED CHARLATANISM.—A leading French newspaper which assumes the duty of championing the public against "charlatans," real or imaginary, has recently made charges against a pharmacist (M. Decaillot, 21 Rue du Pressoir), who prepares, upon the prescriptions of a qualified doctor, certain specialities for the "Institut Drouet," the proprietor of which is said to be an Englishman bearing the name of Dery-Fugère, *alias* Worghal. The pharmacists, the proprietors of the specialities, are alike accused of preying upon the public by dispensing principally for affections of the ears, &c., useless medicaments at high prices. The statements run somewhat as follows :—"Dr. Drouet's anti catarrh paper" is stated to be what is known to French pharmacists as "Emplâtre de Vigo," less the mercury, which the newspaper man suggests is omitted from motives of economy. The "Desobstruent powder," for singing in the ears, &c., is declared to be identical with pulvis anisi (formula 220 of the old Codex). "Dr. Malcolm's tonic extract of quassia and boldo" is suggested as being by its constituents more suited for an insecticide than for treatment of the aural organs. "Windsor cordial of physiologic phosphates" is stated to aid in aural diseases by its beneficial action on the blood as well as the osseous system. The journal remarks that the benefits of such a universal panacea should not be confined to deafness alone.

PARIS SOCIETY OF PHARMACY.

THE usual monthly meeting was held on Wednesday, December 2. The business occupied two hours. Thirty-seven members were present, and M. Moissan presided.

Elections.—The first item was the election of a vice-president. There was a keen contest, Messrs. Burcker and Würtz being regarded with about equal favour, as the first examination of the voting-papers proved. According to the French system, an absolute majority over votes accorded to other candidates is necessary to secure election. A second vote consequently took place, and resulted in a victory for M. Burcker. The election of a secretary followed, the names of Messrs. Leroy and Leidié being proposed by the council. The close voting in this case caused some good-humoured excitement, the candidates having an equal number of supporters at the first scrutiny. But M. Leidié carried the day with the necessary majority at the second.

Prize Essays.—M. Leidié then read the report of the committee on the prize essays—section chemistry. The successful competitors being M. Poulenc, whose subject was "A New Gaseous Body — Pentafluo-chloride of Phosphorus," and M. Louis Demont, who had taken up "Chloroform : Action of Sulphide of Potassium and Sodium." After passing these essays in review, M. Leidié stated that, in view of the great value of these contributions to pharmaceutical science, the committee recommended the society to award two gold medals instead of one, as is customary. The proposition was carried with but one dissenting voice. The dissentient wished it to be understood that he in no way desired to minimise the value of the essays, but feared the cost of the extra medal might cause an undue drain on the society's exchequer. The report of the committee on the prize essays, section pharmacy, was then presented. After some discussion, a gold medal, a silver medal, and an honourable mention were awarded for the three best essays.

The Adulteration of Food and Drink is a matter in which M. Burcker has greatly interested himself, and he presented to the society his recent work on the subject. He drew attention to the keen interest the question has for pharmacists, seeing how frequently they may be called upon to analyse food-products, especially as the recent action of the municipality of Paris will tend to bring about a more strict supervision with a view to checking adulteration.

Associate Members.—The president suggested the desirability of adding the names of some of the leading members of the medical profession to the list of associates of the society, and mentioned four names. He expressed his intention of raising the subject at the January meeting.

Messrs. Bourquelot and Leger each contributed short papers. The latter touched on the researches made by M. Hesse, and a number of samples of chloral hydrate were submitted to the meeting.

Foreign and Colonial News.

PUNISHING A SMUGGLER.—A Triëste merchant, who endeavoured to import cottonseed oil into Hamburg under a false name in order to escape duty, has been fined 428m., in addition to which his 10 barrels of cottonseed oil were confiscated.

MINERAL SPRINGS IN BULGARIA.—The Sobranje has passed a Bill declaring all mineral springs in the Principality to be State property. Communes and districts who will undertake to commence the commercial exploitation of springs situated in their boundaries within a stipulated period may re-purchase the proprietary rights from the State upon nominal terms.

MESSRS. TREMBATH & LANCE have opened a pharmacy at President Street, Johannesburg, in the Transvaal State. Both members of the firm possess the Major qualification of the Pharmaceutical Society, and while in England held dispenserships with Messrs. John Bell & Co. and The General Apothecaries' Company respectively. The new establishment at Johannesburg is a capacious one, having a corner frontage of 60 feet, and being lighted throughout with electricity.

NEW ALKALI-WORKS IN AMERICA.—The manufacture of soda ash in the United States has hitherto been a monopoly vested in a large factory at Syracuse, but a rival concern, owned by the proprietors of the Pittsburg Plate-glass Company, is now about to be started at Wyandotte, Mich., on the Detroit River, and will begin operations this month. Early in the spring the whole plant will be enlarged and improved, but already at the beginning about 40 to 50 tons of soda ash will be turned out per day. When the additions of next spring are put into operation, the capacity of the works will be not less than 250 tons per day.

MORPHIA OR CHALK?—In Egypt Customs duties average about 8 per cent., and are payable in cash or kind at the option of the authorities. There recently arrived at Alexandria, consigned to a leading wholesale drug-house, a parcel of several kilos. of a white powder invoiced as precipitated chalk, and as such the importer proposed to pay duty upon it. The Customs officer was suspicious of the stuff, and determined to take his duty in kind, when the importer, fearing, no doubt, that wholesale manslaughter might result, offered to pay the *ad valorem* duty of 8 per cent. upon morphia, which was the true character of the merchandise. His offer was accepted, and he was let off with a caution.

RUSSIAN PHARMACISTS AND THE FAMINE.—At the meeting of the St. Petersburg Pharmaceutical Society on October 8, the question of the establishment of a fund in aid of the distressed districts of the Empire was discussed. Individual pharmacists had already issued circulars to their colleagues urging them to give to various famine funds, and the St. Petersburg pharmacists had passed a resolution pledging themselves to regular voluntary contributions. All these separate efforts among the Russian pharmaceutical craftsmen will now be concentrated in a committee of four, appointed by the society from among its members as a result of the discussion. A fifth member has been added to the committee for the special object of soliciting contributions from assistants.

A "GOVERNMENT SCENT-FARM."—The Victorian Government have for some time had an experimental flower-farm near Dunolly, where flowers are grown for industrial purposes, principally for perfume-preparation. The farm is under the management of Mr. Mellon. A few weeks ago Mr. Bosisto and the Victorian Minister of Agriculture inspected the place, and promised to use their influence to obtain an extension of the farm area and new distilling plant. Mr. Bosisto made a speech, in which he sketched the French perfume manufacture, and expressed the hope that a similar industry might grow up on Victorian soil. In considering the establishment of such an industry in Australia, two questions—said Mr. Bosisto—would arise. "First, have we any indigenous plants or flowers adapted for the purpose? Second, will the cultivation of imported perfume-plants pay? We are not, as is generally supposed by strangers, surrounded with bush flowering plants, rich in colour, peculiar in appearance, but devoid of fragrance. Many may be so classified. We have a few woods, barks, leaves and flowers, resins and balsams containing aromas. Some may be said to be rich and rare—even in the eucalypti, few leaves of a tree excel the citriodora of Queensland. How few aromas excel the wattles or the pittosporum of Victoria, or the boronia of West Australia! From August to December the wattle varieties are in bloom, scattered over the colony, loading the air with their bouquet, and supplying flowers, not by the pound weight, but literally by the ton. Although the *Pittosporum undulatum* in its forest home does not bear an abundance of flowers, yet under cultivation the tree becomes covered with blossoms. The *Boronia megastigma*, which is a small shrub, supplies flowers abundantly under cultivation, richly endowed with perfume. The musk-tree (*Eurybia argophylla*), so abundant in many parts of Victoria, supplies an otto, durable in scent, frangipanni like. If our people farmed these odoriferous plants they would supply new perfumes for Europe and create an industry in which their young families could find employment. The pittosporum and musk could be planted around sections of land and the boronia cultivated in the garden or by the acre. The necessary knowledge to treat the parts of a plant for the scent product is certainly diversified, but is not beyond the reach of persons of ordinary intelligence." There may be some prospect of success in the introduction of new perfumes; but so far as those already supplied by France are concerned, we fear there is little or no hope of remunerative competition from the Victorians.

Gazette.

PARTNERSHIPS DISSOLVED.

Coalbank & Holberton, Teddington and Hampton, surgeons, apothecaries, and accoucheurs.

Dorward & Watson, Darlington, makers and bottlers of mineral waters.

Johnson & Lyon, Bawtry, surgeons.

Poole, C. W., & Barlow, E. G. B., under the style of G. Barth & Co., Poland Street, W., and Heron Road, Herne Hill, manufacturers of compressed gas and other dental and surgical materials.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Angier, George Augustus, Brighton, late of Hove, doctor of medicine.

Ramage, Alexander Sydney, late of Accrington, paint and colour manufacturer; Walthamstow, commission agent; Bootle, Sankey, near Warrington, and Hough Green, near Widnes, chemical manufacturer and research chemist; and Fordsham, Wolverhampton, Haslewood, near Liverpool, and now of Wolverhampton, manager of chemical works.

ADJUDICATIONS.

Angier, George Augustus, Brighton, late of Hove, doctor of medicine.

Emmet, William, & Histon, Arthur, Gateshead, mineral-water manufacturers.

Seys, James Ancas, Newport, Mon., chemist and druggist.

ORDERS MADE ON APPLICATIONS FOR DISCHARGE.

Ayton, Edward Innes, Southwick Street, Hyde Park, surgeon-dentist; Discharge suspended for three months, ended January 28, 1892.

Edlin, Edward Holberton, Plymouth and Tamerton Foliott, surgeon, Discharge suspended until a dividend of 10s. has been paid.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

On Wednesday, at 11.25 A.M., a rather thin Council met at 16 Bloomsbury Square, W.C. Mr. Michael Carteighe, the President, was absent, Mr. Alexander Bottle being in the chair, and Mr. Hampson (Treasurer) in the vice-chair. There were also present Messrs. Allen, Atkins, Cross, Gostling, Greenish, Leigh, Martindale, Newsholme, Schacht, Southall, Storrar, and Warren. Mr. Evans came in later.

SOME ABSENTEES.

The VICE-PRESIDENT, before the minutes were read, said it was with much regret to himself, and, he was sure, of everyone present, that the President was too unwell to be there that day. He hoped it was only a slight cold that Mr. Carteighe had, and that on a very early day they should have the privilege and pleasure of having him with them again. He (the Vice-President) trusted that he would have the indulgence of his colleagues in the unusually arduous duties of the day. He would have the assistance of Mr. Hampson. He also read apologies from Mr. Watt, who was detained by the exceptional sickness in Haddington, and from Mr. John Harrison, who, as vice-chairman of the Health Committee of the Sunderland Town Council, had to attend a meeting there at which important business was to be brought forward.

THE LATE MR. THOMAS HYDE HILLS.

As soon as the minutes were disposed of the VICE-PRESIDENT, again rising, said it was with the deepest grief that he had to report the death, since their last meeting, of his dear old friend—Thomas Hyde Hills. Apart from the personal emotion which this circumstance now induced, he regretted that the President was not there that day to refer, in far more eloquent words than he could employ, to the labours of their deceased friend on behalf of the Pharmaceutical Society. He was glad, however, that the President, on the previous evening, at the General Purposes Committee, had drawn up a resolution in regard to the matter, which he would now read. It was as follows:—

> That this Council learns with the deepest regret of the death of Mr. Thomas Hyde Hills, who for more than twenty years was a valued member of the Council, and who, during that time, ably and zealously filled in succession the important offices of Vice-President, Treasurer, and President. The members of this Council also desire to record their sense of the services he rendered to the Society, and the generosity which has always marked his active interest in the work of the Benevolent Fund. They offer their warmest sympathy to Mr. Hills's family in the loss which they have sustained.

Continuing, Mr. Bottle said that it had been his privilege to know Mr. Hills better, perhaps, than any other member of the Council. His acquaintance with him went back to the days of Jacob Bell, and he remembered attending Mr. Bell's funeral along with Mr. Hills. From that day to his death they had seen much of each other, and he could say that no one had taken greater interest in the affairs of the Society than Thomas Hyde Hills. He (Mr. Bottle) was vice-president when Mr. Hills was in the chair, and had had ample opportunity of watching then how great was his desire to further the interests of the Society. He had since been in close communion with him, and had seen the last of him—had seen how little alteration death had made on his face. They knew that for the last ten years, owing to sickness, Mr. Hills had been unable to take an active interest in their affairs. But they had not forgotten him. They had his face on their walls, and his works remained as a tribute to what he had done in his devotion to the Society. Mr. Bottle then read a telegram from Mr. Carteighe, stating that he had lost his voice, and that it was a matter of deep regret to him that he could not be present.

Mr. HAMPSON, from the vice-chair, said that while he could not claim such personal friendship as Mr. Bottle's with Mr. Hills, yet he had sat on the Council with him, and he could accept fully all that had been said regarding him. One thing he had particularly noticed about Mr. Hills was his desire to bring forward younger members of the trade. This was so in regard to Society matters, and he believed that he could also say that it was help given by Mr. Hills that had started many young men on their career. While they deplored his death, they would not forget that Mr. Hills—like all good men who tried to make the world better—left a force which is never spent. That force, he maintained, was a great immortality, and in it they had their dead friend's deeds as a moving power, although he was gone. (Hear, hear.)

Mr. THOMAS GREENISH, as one who had known Mr. Hills for forty years, desired to express his feeling of regret.

Mr. SCHACHT said he had not had so intimate an acquaintance with Mr. Hills as the Vice-President. His relations with him were those of a fellow-worker rather than of a personal friend. Perhaps that gave him the greater right to speak of the devotion which Mr. Hills always gave to his work, and the kindness with which he did it. He would like to speak of the catholic spirit which pervaded all that Mr. Hills had done for the craft. He (Mr. Schacht) was treasurer of the Pharmaceutical Conference when Mr. Hills had donated the money which constituted the Bell and Hills Fund, the object of which was to present books to the pharmaceutical associations in the localities at which the Conference met. At that time it was supposed in the Council that the Conference would be an opposition to the Society. Mr. Hills saw through that, and that the Conference would in no sense oppose the Society. He (Mr. Schacht) felt that, by the death of Mr. Hills, pharmacy, and those engaged in pharmacy, had lost a valuable friend.

Mr. ATKINS said it was scarcely necessary to add anything to what had fallen from previous speakers; but as this was the last opportunity one had of saying what one felt, he desired to be excused for a few moments. He had known Mr. Hills for thirty years, but it was twenty-one years since he began to know him intimately. Mr. Hills had visited Salisbury, and they were taking a walk together in the moonlight, when Mr. Hills expressed a desire to see Lord Howard's monument. They walked to it, and the time which he spent with him gave him an opportunity of knowing him better than he had ever done before. What struck him then was Mr. Hills's intense love of art, his high appreciation of the beauties of nature, and his interest in British literature. (Hear, hear.) He had known Mr. Hills intimately in the prime of his life and power, and in his declining years, and respected him for his kindly, genial heart. There was no more loving man than Thomas Hyde Hills, and many a young man had cause to speak of his kindness. Another feature in his character was the absence of selfishness, or, he would say, the utter absence of jealousy as to the man who would succeed him. He had never heard him say one word against those that came after him in the management of the affairs of the Society. Mr. Atkins also referred to Mr. Hills's great liberality and his unbounded hospitality.

Mr. STORRAR said that as one who did not know Mr. Hills as a friend, but who knew his work and respected him, he desired to express his regret at the loss which pharmacy had suffered by his death. He proceeded to speak of what Mr. Hills had done for pharmacy, remarking that he was more than a pharmacist, for he was an accomplished and scholarly gentleman, the like of which there were too few amongst us.

Mr. MARTINDALE said that at one time he sought an appointment which had had the greatest influence on his life, and he could never forget how Mr. Hills had aided him by combating obstacles which one in his position only could remove. Afterwards he was a member of the Board of Examiners when Mr. Hills was chairman, and he could recall the kindness with which he treated students, and how nicely he spoke to them.

Mr. GOSTLING also desired to contribute his word of regret, saying that in Mr. Hills the Society had lost one of its best friends.

Mr. C. B. ALLEN said that as one who was formerly in Mr. Hills's employ he regretted very much to hear of his death. He (Mr. Allen) was the only one on the Council who had had the privilege of working in the house with which Mr. Hills was connected, and he could say that that had more to do with framing his career than anything else. Although Mr. Hills did not come much into personal contact with the assistants in John Bell & Co.'s, he looked after their interests in such a way that all the comfort and pleasure which they

experienced in the establishment in his day were due to Mr. Hills's thoughtfulness.

The resolution was carried unanimously.

Election of Examiners.

The whole of the present members of the Board for England and Wales were proposed for re-election, and on a ballot being taken they were unanimously elected. They are:—

Blunt, T. P., Shrewsbury	Greenish, T. E., London
Bowen, J. W., London	Holmes, W. M., London
Corder, Octavius, Norwich	Ransom, F., Hitchin
Davies, R. H., London	Saul, J. E., London
Druce, G. C., Oxford	Symons, W. H., London
Fletcher, John, Cheltenham	Tanner, A. E., London
Gerrard, A. W., London	Taylor, G. S., London

The Council went into committee to consider the nominations for the Scotch Board, and on resuming a ballot was taken, and the following elected:—

Boa, Peter, Edinburgh	Kinninmont, Alex., Glasgow
Dott, D. B., Edinburgh	Maben, Thomas, Hawick
Gibson, Adam, Edinburgh	Nesbit, John, Portobello
Jack, James, Arbroath	Stephenson, J. B., Edinburgh

The Vice-President, in declaring the foregoing gentlemen to be elected, said it was regretted that they were losing their old friend, Mr. Gilmour, whose health had lately been failing, as he had noticed when he was in Edinburgh in July. In Dr. Inglis Clark they had also an able examiner, a very able chemist, and a very useful man; but he hoped that Dr. Clark would again come to the front, and that they would yet see more of him in the South.

It was on resolution agreed to thank the examiners for their services during the past year.

Elections.

Several persons were elected associates, &c., of the Society, and the superintendents of the written examinations (local secretaries in the respective towns) were also elected.

Finance Report.

The Secretary read the report for November. The general fund account showed as follows:—

	£	s.	d.
Balance, October 31	98	7	2
Received, examination fees	174	4	0
" penalties	12	10	0
" rent (Edinburgh stable)	9	19	6
" from Journal publishers..	2,022	19	11
	2,218	0	7
Paid out during November..	1,171	13	4
	1,546	7	3

Items amounting to 1,193*l.* 11*s* were authorised for payment. These included salaries for two months up to December 31, and the usual monthly accounts. In regard to the Benevolent Fund during the month 167*l.* 11*s.* 2*d.* was received in subscriptions, and 50*l* paid in relief, leaving a balance of 578*l* 11*s.* 2*d.* in hand. A donation of 21*l.* had also been received, making that account 42*l.* 6*s.*

A Radical in the Camp.

Attached to the finance report was a recommendation by the committee that a committee, with powers, to purchase ground-rents should be appointed, this to consist of the President, Treasurer, and Messrs. Hills and Martindale.

The Vice-President explained that an eligible purchase had recently slipped through their hands, owing to the want of proper power, and it was thought desirable that a small committee should look after the matter in future.

Mr. Evans asked if the Council was likely to consider the whole position in regard to the purchase of ground-rents. He thought that in view of probable legislation in the near future it was not desirable to invest money in this way. He also asked how much had recently been invested in ground-rents, and if it was necessary that they should be in London. He suggested that they should purchase, if at all, in such towns as Manchester and Liverpool, as well as in London.

Mr. Southall also considered it unwise to invest all the money in ground-rents.

Mr. Hampson said that anyone, such as Mr. Evans, who held strong opinions on this matter should bring it before the Council definitely by resolution, and let it be decided once for all whether these investments were desirable or not. He himself entertained the opinion that something would take place in regard to the taxation of ground-rents, but he thought that changing was the fate of all investments, and that in ground-rents they had ample security.

Mr. Evans said his only chance of referring to the matter was when it came before them as it did that day.

Mr. Atkins thought Mr. Evans was perfectly right in bringing the matter forward now, but he expressed the view that ground-rents are not so unsound an investment as Mr. Evans supposed. He advocated their purchase.

Mr. Allen added an explanation of the necessity there is for a committee to deal with purchases promptly.

Mr. Schacht did not see why a permanent committee should be necessary. It was enough to appoint one when they had money to spend.

The Vice-President said that was what the terms of the motion implied—viz., "to purchase ground-rents out of the consols now standing."

Mr. Hampson having pleasantly explained himself to Mr. Evans, Mr. Gostling supported the motion, and Messrs. Greenish and Cross expressed the opinion that Mr. Evans should bring his idea definitely before the Council.

The Vice-President, in reply to Mr. Evans, said it was desirable to have ground-rents in London, as they gave less trouble to the officers in looking after them.

The finance report was then adopted, and the committee appointed.

Miscellaneous.

The Leeds Chemists' Association thanked the Council for the grant of 20*l.*

Mr. Leonard Thompson, Nottingham, was restored to the register of chemists and druggists.

Mr. W. C. Sayre was appointed divisional secretary for Lewisham, in place of Mr. Want, who has removed from the district. Mr. Hampson suggested that Mr. Want should be thanked for his services, but it was pointed out that that would be unusual.

Benevolent Fund.

There were nine applications, two of which were not entertained, and 80*l.* was voted to the remaining seven, one of these (the widow of an annuitant) having her name placed on the list of annuitants. It was agreed to give the Robbins grant of 5*l* to R. C. Davies, an annuitant.

The Vice-President read a letter from a son of the late Mr. Richard Willats, chemist and druggist, of Homerton. Mr. Willats had bequeathed a legacy of 100*l.* to the Benevolent Fund, and at the request of his mother the son desired to continue his father's annual subscription to the fund. A letter was also read from Mr. Walter Hills, who sent an extract from his late uncle's will, made on December 20, 1883. This showed that Mr. Hyde Hills bequeathed to the Society the portrait of Jacob Bell, painted by Sir Edwin Landseer, and presented by the artist to Mr. Bell, who bequeathed it to Mr. Hills. The portrait of Mr. Hills, drawn by his friend Sir John Millais, was also bequeathed, and to these was added a legacy of 1,000*l.*, to be invested as the Council of the Pharmaceutical Society might decide, so as to provide a fund from which the Council might further the election to suitable charities of widows and orphans of members and associates of the Society who had subscribed for three years to the Benevolent Fund. The Vice-President was deeply moved when he read this extract, and added a few sentences in appreciation of what Mr. Willats and Mr. Hills had done; of the latter he said it was just what was to be expected.

Library, &c., Committee.

In addition to the routine matters, this Committee reported that it had not had a reply from the Brussels secretary of the International Pharmaceutical Congress, and it was decided to inform M. Limousin that, as there is to be a congress in Chicago in 1893, it is undesirable to have one in Europe the same year. It was also agreed—

To confer with the Executive of the British Pharmacen-

tical Conference in regard to the proposed meetings of the Society in the provinces.

To give certificates to Research workers, as suggested last month.

To give the Hanbury books to the silver medallists in materia medica and pharmacy only.

THE CONCLUDING BUSINESS

comprised the resolution of the North British Branch Executive in regard to local secretaries; an intimation of Professor Armstrong's lectures, the first to be held on Wednesday, December 16; and thanks to Mr. Kinninmont for his gift of a microscope and spectroscope to the North British Branch.

The Council then went into committee.

DRUGS AND PREPARATIONS FOR USE IN DENTAL PRACTICE.

AT last week's meeting of the Chemists' Assistants' Association a paper on this subject was read by Mr. W. Rushton, L.D.S. In the introductory part of the paper the author referred to dental practice of past ages, drawing in this connection from "Arcana Fairfaxiana"; then, coming to the present day, he paid a compliment to Sir John Tomes for his labours in bringing dental practice to an exact science. Speaking of

SENSITIVE DENTINE,

Mr. Rushton said that the chief drugs used for this are carbolic acid, chromic acid, nitrate of silver, and chloride of zinc. When the pulp has to be destroyed arsenious acid, generally mixed with morphine or cocaine, is used. He had not found either of these alkaloids very effectual in allaying the pain following the use of arsenic. Nitric acid has been employed to destroy pulp, but its disintegrative action on tooth-tissue and the danger of its application are its great disadvantages. Pepsin is too slow a digester of pulp to be of much service, though it has been employed. The drugs chiefly of use in allaying

PAIN IN EXPOSED PULPS

are chloroform, chloral hydrate, camphor, cocaine, cloves, carbolic and boracic acids. The treatment of the tooth-pulp after it has been destroyed is a difficult branch of surgery. When decomposition sets in it is not easy to render the root aseptic. The chief antiseptics in use are creosote, solution of perchloride of mercury, iodoform, cloves, alcohol, permanganate of potassium, thymol, myrtol, carbolic acid, beta-naphthol, &c. Dr. Miller, of Berlin, has conducted experiments to prove the comparative efficiency of various antiseptics, and he shows that in applying an antiseptic to a tooth-pulp it would have to work its way through the pulp from its point of application. This property of penetration, as well as the purely antiseptic properties, were taken into consideration with the following results:—

1. *Antiseptics Preventing Decomposition of Pulp-tissue.*—Perchloride of mercury, cyanide of mercury, trichlorphenol, copper sulphate, carbolic acid, chloride of zinc, and hydronaphthol.

2. *Antiseptics of Doubtful Value.*—Thymol, salicylic acid, eugenol, alpha and beta naphthol, 5-per-cent. sol. of bichloride of mercury, and some essential oils.

3. *Worthless Antiseptics.*—Iodoform, aniline colouring bases, borax, boracic acid, chloride of calcium, peroxide of hydrogen, iodol,* tincture of iodine, camphor, naphthalin, and some essential oils.

Some drugs have not been sufficiently tested to judge of their comparative value; among these were resorcin, thallin, sulphocarbolate of zinc, oil of birch, and iodide of sodium. Dr. Miller's experiments only refer to the action of these agents on infected pulp. The method by which he worked was explained, and Mr Rushton proceeded to speak of the drugs chiefly used for

CHILDREN TEETHING.

These are hypophosphites, phosphates, and lime-water. Mercury has a strong action on the teeth, and mercurial teeth, the result of mercurial teething-powders, are a common sight to the dentist. Thereafter anæsthetics were discussed, and for

TOOTH-POWDERS

Mr. Rushton said he knew of nothing better than precipitated chalk, it being slightly alkaline and non-gritty. To this base scores of things have been added, among the most useful being powdered areca for flabby gums, bole armenia for colouring, and camphor as a refreshing agent, but otherwise of little use. Also cinchona, myrrh, quinine, orris, and essential oils as flavouring agents. Powdered soap and powdered pumice are useful ingredients. Wood charcoal and soot are injurious, often causing the gum to recede on account of their absorbent action. Any preparation for the teeth containing cream of tartar or other acid should be condemned. The drugs chiefly used in

MOUTH-WASHES

are krameria, myrrh, tannin, and catechu as astringents; carbolic acid, phenate of sodium, potassium permanganate, "Sanitas," thymol, and borax as antiseptics; tincture of pyrethrum as a stimulant, subnitrate of bismuth for the relief of ulcerated mouth, and quillaia as a froth-producer. Lotions for ulcerated conditions of the mouth may contain chlorinated lime, chlorinated soda, and chlorate of potash; nitrate of silver, sulphate of copper, and caustic potash are used in the solid state. Chlorinated lime has not been successful as a bleaching agent for discoloured teeth. The author also mentioned drugs used in neuralgia, but he added that these can only be selected from an accurate knowledge of the cause of the neuralgia, so that his list becomes useless.

For alveolar abscess, there is nothing better than the fomentation of poppy and chamomile, if applied inside the mouth instead of outside, as people persist in doing. There would be no risk of facial disfigurement if the gumboil is opened from without inwards. Among the best styptics are tannic and gallic acids, ergot, iron perchloride, and hamamelis.

THE DISCUSSION

which followed was long and animated. Amongst the things worth preserving which our reporter picked up were these:—The prickly ash has virtues similar to pellitory. As a tooth-powder, plain bicarbonate of potassium has been used with good results. Poppy and chamomile as a fomentation are very useful if applied in time, as they assist the disintegration of pus. The Japanese are skilled dentists; they use their fingers as forceps. So said the president (Mr. W. L. Williams). A dentifrice containing 20 grains of iodoform to 2 oz. of camphorated chalk was recently compounded by Mr. Taylor. However effectual it might be, he did not think it would commend itself to the majority. For local anæsthesia, an injection of 4 or 5 minims of 20-per-cent. solution of cocaine is quite sufficient. Painting round the tooth with pure ether is very useful. Mr. Evans is our authority for that. He also said that he had seen cases of hæmorrhage that could not be stopped with ferric chloride and silver nitrate, and in which only actual cautery with hot iron was effectual. There were some other remarks regarding the use of cocaine, generally in its favour, and the same may be said of iodoform, most of the speakers being astonished to hear that it is not a good antiseptic. Some had statements to make the opposite of that, "but," said Mr. Tingle, "iodoform is not an antiseptic: its value is due to its desiccating property."

Replying to the discussion, which was very general, Mr. Rushton said bicarbonate of potassium could be recommended as a mouth-wash for children, but it is too soft for general use. The action of cocaine depends upon the condition of the tooth-pulp: the better this was exposed the less would be the pain. There is no virtue in tobacco-ash. That camphorated chalk makes the teeth brittle remains to be proved. The utility of Stent's composition or of beeswax for taking impressions depends upon the skill of the manipulator. Ether is a safer anæsthetic than chloroform, but nitrous oxide is most harmless if properly administered. Iodine has no action on tooth-tissue. Phenol is one of Dr. Miller's finest antiseptics. Teeth should be cleaned the last thing at night, and they should be frequently examined by a dentist.

SHOP-LIFE.

AT the meeting of the Glasgow Chemists' Assistants' Association, on November 25, Mr. William L. Currie, chemist and druggist, Dowanhill, whom the chairman introduced as "a successful chemist in a fashionable suburb of the city," read a paper on "Shop-life." After commenting on the attractions which the chemist's shop seemed to offer to the uninitiated by its coloured carboys in the windows, and gold-labelled bottles, Mr. Currie said he expected he would not be far wrong in saying that the majority, if they had the chance of beginning life again, would not select the drug-trade to pass their days at. (Applause.) There was an idea spread among those at the business that the drug-trade was done. He did not think this was the case by a long way. Even although they did not make a fortune, it could yet afford a subsistence, and something over, if constantly and faithfully followed. They had heard of the druggist who put over his door the advertisement that he "could cure every ill, prevent every disaster, and soothe every disappointment." And when customers applied for the remedies, he said:—

> Patience is the pill
> That eases every ill;
> Take care is the plaster
> That prevents disaster;
> Good temper is the ointment
> Soothing disappointment.

(Laughter.) It wants perseverance like every other thing you try. The lecturer then commented briefly on the long hours, the small wages, and the examinations. To the druggist, he proceeded, the first day behind the scenes will be a long-remembered one. The view presented is not too reassuring, and the kind of work which you get to do is not such as you had expected. The routine of label-trimming, bottle-washing, floor-sweeping, dusting, in conjunction with the usual request to "smell this fine perfume," or to "taste this new fruit syrup"—(laughter)—all tend to open the eyes of the embryo pharmacist; and as day after day new experiences are added, his ideas of pharmacy and pharmacists, with their mysteries, are not particularly enhanced. The older hands in the shop, if chance should place him where there are a few, are sure to remember what they have learned, and usually try to improve upon it. To this method of initiation Mr. Currie had objections. Sometimes it has been carried too far, and more than once he had seen the services of the medical man in request. Not only are there risks, but it seriously damages the assistant in the eyes of his subordinate. In dealing with this part of the subject, Mr. Currie quoted from THE CHEMIST AND DRUGGIST of a few years ago some verses, entitled "The Druggist's Boy," beginning:—

> Who came to me with smiling face?
> Who wormed himself on my good grace,
> With, "Mother's sure I'll suit the place"?
> The Boy.
>
> Who never touches glass or pot
> But I from top to toe feel hot?
> Who makes me say things I ought not?
> The Boy.

Shop-life, Mr. Currie continued, is to us practically our social life. In the shop we find our work, as well as a good deal of our pleasure, and the individual who accommodates himself to his surroundings is the man who enjoys his work and revels in his leisure. One often hears it said that the long hours, of which I have no doubt we have all had some experience, leave very little time for study, leisure, or amusement. I am sorry that it is only too true that we have not much time for leisure; and yet, who is it nowadays that has much leisure? As for the amusement, of all classes of shopkeepers we may derive more amusement in a week than the majority could in a month. The curious requests which are made of us, the extraordinary writing and spelling, the stage-whisper which is intended to be quite private, the wonderful descriptions of various complaints—all supply a source of amusement not to be met with elsewhere. To be asked for the first time for "McGregor's gatherin'," or "operatic pills," or to be handed a note with a request to "give the bearer a soothing-draught for a woman who was confined a few days ago of twins and a box of Tidman's Sea Salt"—(laughter)—or to be told, with an expression of perfect innocence and an air of superiority, by a high-falutin individual that he is troubled with the boil, or to be asked to "give something for an ulster in the throat"—these are sufficient to extract a smile from the prosiest. There is not much difference in the routine of work in chemists' shops, but where two or three are employed it is always best, for the sake of good feeling, to have a perfect understanding as to the division of the work. It is the first step towards establishing that regularity and neatness which generally exist where system is in force. Where there is a continual worrying going on as to who has to do this or that work, the shop becomes irksome, and what should be the most pleasant part of one's career becomes the most unhappy. In our shops there is not the same continual stream of customers, nor the usual end-of-season cheap sales of surplus stock, although, since the introduction, during the past few years, of so many new remedies and appliances of all kinds, it might be a good thing even for the chemist to have an occasional surplus-stock sale. If there is no epidemic, or something akin to it, going round, as we have just now with the influenza, business is not so continuous as in any other class of shop; and it is on this very point that I would venture to make an observation. It is only when there is such a quiet time that an assistant has an opportunity for putting up the usual stock articles belonging to the retail branch of the business. We hear a great deal about the want of time for study, and that when the ordinary day's work is done the mind is unfit for any great effort. Hence the cry for shorter hours. Well, I say by all means give us shorter hours; but has it ever occurred to you how much memory-work might be overtaken during the time you may be occupied in putting up a gross of seidlitz-powders, or in rolling out a few gross of pills? I venture to say that the greater part of the memory-work of the Minor examination might be overtaken at such times. I think it a pity that Sunday labour cannot be curtailed to not more than one or two hours. But is it the case that ours is the only trade in which drudgery exists? I think not. Anything can be a drudgery if the mind does not lie to the work. Put your whole soul into your work, and it will become a pleasure. You may often find it hard to put up with, and you may often think when you are lighting-up behind the coloured carboys, "If I had only been something else—a banker or a school-teacher, for example!" If such thoughts should crop up, banish them, and comfort yourselves with the fact that even they have their difficulties to overcome, and that it is a good thing for the world in general, and ourselves in particular, that everybody is not of our mind. Somebody must dispense drugs, and why not you as well as the next man? With regard to customers, no opportunity should be lost to leave a favourable impression on the mind—offering to send their parcels, or making one out of two or three; whilst the value of a nod, or a pleasant recognition on entering or leaving a shop, is incalculable. We all like to be thought something of, and sometimes feel slighted when treated as if it was a matter of indifference whether we came or not. Remember, too, these are especially the days when a man must be qualified for what he undertakes to do. To be something, he must be quite equal to his competitors; but to be somebody, he must be superior to the majority. The assistant of the present day has much more trouble and annoyance in the execution of his work than his predecessor of, say, ten years ago, on account of the extraordinary number of new remedies and combinations foisted upon the physician. Time was—and, I hope, will soon return—when a good prescription could be dispensed with B.P. preparations, and the life of the assistant was comparatively a happy one. But now it is almost the exception to dispense a prescription without having to make some inquiry regarding somebody's new "mistura," or some other body's new pill. Regarding these I would say, Throw as much cold water as possible on such preparations. (Hear, hear.) If a physician asks if you have So-and-so's pills, containing such-and-such an ingredient, and you haven't, don't say you will be delighted to procure them unless they are very specially insisted on, but say you will be delighted to make any pill of whatever combination

he may want. It may be more labour, but you will be able to guarantee your work: and by putting yourself to a little extra trouble you may bring round physicians to think that, after all, it will be much better to write out a prescription for exactly what they want, instead of ordering something which is nearly what they want. The assistants of to-day will be the employers of the future, and by combating the fast-growing tendency to ordering ready-made combinations they will be bettering the trade generally and improving their own position. In conclusion, I would say, if you wish to have pleasant recollections of the various resting-places where you have passed a short time, act, when an assistant, as you would have an assistant act to you.

An interesting discussion followed, in which the President, Mr. Robb, Mr. Cartwright, Mr. McKeller, Mr. Laing, and Mr. Robertson joined. Mr. Currie, in replying to the criticisms, remarked that inside of two and a half years he had travelled all over Scotland, and had been in from 150 to 200 shops, as relief assistant to Messrs. W. & R. Hatrick & Co., and from his experience he could say that the country businesses, where they sold everything from a pin to an anchor, were the places where money was to be made.

NEW COMPANIES.

TIPPETTS (LIMITED).—Capital, 2,000*l.*, divided into 20 shares of 50*l.* each, and 20 founders' shares of 50*l.* each. Objects: To purchase or acquire certain patents, inventions, rights, &c., for, or in relation to, apparatus for filtering water or liquids, &c. The first subscribers (who take one share each) are:—M. Mager, 126 Corporation Street, Birmingham, pharmacist; C. J. Collins, 11 Edgbaston Street, Birmingham, paper-dealer; G. Tucker, Dartmouth Street, Birmingham, manufacturer; A. Granger, King's Heath, gentleman; A. G. Granger, 6 Suntlefield Yard, Birmingham; H. Grigg, 22 Gloucester Street, Birmingham, meat-salesman; and W. Mountford, 12 Phillip Street, Birmingham. Registered without articles of association.

SWANSEA CHEMICAL COMPANY (LIMITED).—Capital of 30,000*l.*, in 100*l.* shares. Objects: To purchase certain lands, works, and buildings at Llwyn Crwn, Glamorgan, and to manufacture sulphuric, hydrochloric, and oxalic acids, salt-cake, artificial manures, and other chemicals, &c. The first subscribers (who take one share each) are:—Sir J. J. Jenkins, Swansea, knight; Wm. Williams, Morriston, tinplate manufacturer; W. H. Edwards, Morriston, tinplate manufacturer; Margaret D. Thomas, Swansea, widow; J. Jones, Morriston, agent; and G. Clark, Fir Grove, Morriston, gentleman. There shall not be less than three nor more than five directors, and the first are Sir J. J. Jenkins, W. Williams, and W. H. Edwards. Qualification, 1,000*l.*; remuneration, 100*l.* per annum each, and a further sum to be determined by the company after payment of a 10-per-cent. dividend.

SALAMON & CO. (LIMITED).—Capital 12,000*l.*, in 5*l.* shares. Objects: To acquire the business at present worked by M. Salamon and J. Salamon at the Chemical Works, Rainham, Essex, and to carry on the business of manufacturers of sulphate of ammonia, tar-distillers, &c. The first subscribers (who take one share each) are:—W. Konigsberg, 129 Queen's Road, Finsbury Park, musical-instrument manufacturer; W. Belhart, 21 Grove Road, Highgate Road, clerk; E Konigsberg, 132 Chiswell Street, E.C.; Marcus Salamon, Rainham, chemical manufacturer; J. Salamon, Rainham, chemical manufacturer; A. S. Heilbronner, 52 Cambridge Avenue, Kilburn, wine agent, and C. J. Salamon, wife of John Salamon. There shall not be less than two nor more than seven directors, and the first are Marcus and John Salamon.

SUTTON'S PROCESS SYNDICATE (LIMITED).—Capital 15,000*l.*, in 1*l.* shares. Objects: To acquire certain letters-patent relating to "an improved process for converting a photographic image on a gelatine surface into a relief or intaglio printing surface," and to develop and work the same: also to carry on business as inventors, photographers, chemists, printers, engravers, &c. The first subscribers (who take one share each) are:—G. R. Davey, 4 Fassot Road, Dalston, clerk; C. A. Gibb, 76 Mildmay Grove, N., clerk; W. Wilson, 21 Endwell Road, Brockley, clerk; H. V. Johnson, 3 Torrens Road, Brixton, clerk; H. H. Lansdowne, 58 Portland Place North, Clapham, clerk; B. Jackson, 21 Devonshire Road, Holloway, clerk; and F. C. Jeffrey, 79 Hornsey Rise, N., gentleman. There shall not be less than three nor more than seven directors. The first are to be appointed by the first signatories to the memorandum of association. Qualification not specified; remuneration, 500*l.*, and 5 per cent. of the amounts paid by the company in dividends or bonuses, such remuneration to be divisible.

SOUTH WALES SOAP COMPANY.—Capital of 20,000*l.*, in 5*l.* shares. Objects: To carry on business as manufacturers of and dealers in soap, tallow, oil, candles, night-lights, starch, blue, blacklead, blacking, &c. The first subscribers (who take one share each) are:—J. Holmes, Tredegar, merchant; J. Daniel, Abersychan, merchant; E. A. Taylor, Risca, merchant; J. Walters, Trehcrbert, merchant: T. Howe, Abercarn, merchant; A. Williams, Newport (Mon.); and H. A. T. Skyrme, Newport (Mon.). There shall not be less than five nor more than nine directors. The first are:—A. Williams, Newport (Mon.); J. Daniel, Abersychan; J. Walters, Treherbert; E. A. Taylor, Risca; H. A. T. Skyrme, Newport; and D. Prosser, Treharris. Qualification, 500*l.*; remuneration to be determined by the company in general meeting. Registered office, Tredegar Chambers, Tredegar Place, Newport (Mon.).

TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lack, Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," December* 2, 1891.)

"ANTI-PERONOSPORA INFESTANS," and picture of potato-plant and wording on label; for a chemical preparation for use against potato-disease. By C. de B. Stewart, Woodville, Le Hocq, Jersey. 157,494.

Representation of old city gate and key, with wording and letters; for disinfectants and deodorisers. By A. G. Annett and S. W. Hawkins, trading as J. Beedzler & Co., 20 Norton Folgate, London, N.E. 159,106.

"VINER'S RENOVATING PILLS," &c., on label; for proprietary pills. By Margaret Viner, 49 Mildmay Park, London. 158,688.

"PERODIA"; for medicine for human use. By R. S. Gutteridge, 58 Brooke Street, Grosvenor Street, W. 159,182.

Picture of tree, with signature of firm, address, and wording on label; for chemical substances used in medicine and pharmacy, and for perfumery. By T. J. Williams, trading as R. Hendrie & Co., 200 Regent Street, London. 159,788, 159,790, 159,789, 159,701.

"THE MEDICAL ELECTRODE," and picture of young lady holding same; for a contrivance for curative purposes. By M. A. Hillock, trading as The Medical Electrode Company, 41 Berners Street, Oxford Street, W. 158,127.

Picture of old town cross; for aërated non-alcoholic, non-medicinal beverages. By A. E. Johnson, South Cerney, Cirencester. 158,965.

"VEGETABLE TOILET SOAP," and other wording on label; for toilet soap, perfumery, dental preparations, &c. By D. W. Stallings, Wichita, Kansas, U.S.A. 158,964.

TO MARK GLASS GOODS.—An old spatula is wetted with soda solution and dipped into ordinary emery flour: this is rubbed upon the glass, so as to roughen a patch about half-an-inch square: mark the price on this patch. Gummed labels often come off, but the price-mark put on in this way does not.

Legal Reports.

Starch in Linseed-meal—Decision.

Decision has been given in the Glasgow linseed-meal case, in which Alexander Doig, 55 Norfolk Street, was charged with selling to the sanitary officers 1 lb. of linseed-meal containing 15 per cent. of starch, which, the prosecutor alleged, is extraneous to linseed meal. On November 26 the case came before Sheriff Birnie for the third time. It was stated at the first hearing by Dr. Tatlock, one of the city analysts, that starch was not natural to linseed-meal, as the respondent contended; and in support of his contention Mr. Doig at a second diet brought another analyst, Mr. Combe Stewart, who said that starch was a natural ingredient of linseed. Under the circumstances the sheriff adjourned the case and forwarded to Somerset House for analysis the third portion of the sample purchased by the sanitary officers. The certificate received from London was in the following terms:—

> We hereby certify that we have examined the said linseed-meal, and declare it to contain not less than 20 per cent. of starch, consisting chiefly of barley and rice, the same having been added in the form of barley-meal and ground rice.

Mr. Shaw, respondent's agent, said Dr. Tatlock stated that it was wheat-starch he found in the linseed-meal, and now the Somerset House people said it was barley and rice. They were not much further forward.

Mr. John Lindsay (the prosecuting agent): Oh, but we are.

Sheriff Birnie: I have to deal with this case, and I think there is no doubt about the adulteration from the Somerset House certificate.

Mr. Shaw: All I have to do now, then, is to repeat the plea I set forth at the previous diet—that linseed-meal is neither a drug nor food. The Act says, "shall include medicine for internal or external use." Now, linseed-meal is applied only to the skin for the purpose of creating heat. I maintain that as there is no absorption of the article into the system it cannot be called a drug. My friend has brought this case to determine a question that does not arise under this Act at all, and he made a mistake in doing so. If your lordship should take a different view from mine, I have to ask that the penalty be slight—indeed, I think an admonition would be sufficient.

The Sheriff: Is this the first case of the kind?

Mr. Lindsay: Yes.

Mr. Shaw: I understand it is the first case in the United Kingdom.

The Sheriff: If I recollect right, the respondent bought this linseed-meal from someone in Glasgow. Had the respondent any warning that it was bad?

Mr. Shaw: None in the world. The respondent is brought up to test the case—not because of any attempted fraud upon the public.

Mr. Lindsay pointed out that the actual outlay incurred in the case amounted to 2*l.* 12*s.* 10*d.*; there was, besides, 10*s.* 6*d.* for the Somerset House fee, and 5*s.* for transmission.

Mr. Shaw: The city of Glasgow is able to pay that in order to get this case determined. My friend knows that I asked to have an analysis made of pure linseed-meal. If he had agreed to have such an analysis of the two articles—first, linseed, and, secondly, this meal—we should have got a final determination of the question whether or not there was starch in linseed. He further alluded to the discrepancy between the two analyses.

The Sheriff: It is the duty of the Health Committee to test this question, but it is a hardship for one man to pay considerable expenses. Suppose I commence by giving very small penalties in those cases—penalties that will not in any way cover the expenses—that would not be fair. Is it not a risk which a grocer carrying on business now takes that he may have the wrong material in his shop?

Mr. Shaw: If he had had any suggestion that linseed-meal was a drug——

The Sheriff: If you go to that point you are on ice at once. To my mind there is not a shadow of a doubt about linseed-meal being a drug. I think it would be a most extraordinary reading to hold anything else.

Mr. Lindsay: In regard to my refusal to acquiesce in the sending of pure linseed-meal to Somerset House, neither your lordship nor myself has anything to do with that. He pleads that this is a hard case; but your lordship will remember that the defence was that there was no starch added whatever, and they brought technical evidence to support that; now, in view of the certificate we have received, that evidence is thrown to the wind. I say they have taken every possible defence and put me to great expense.

The Sheriff: I think I am dealing fairly in making the penalty 1*l.* 11*s.* 6*d.*, including costs.

Another grocer was charged with a similar offence, and, in view of the sheriff's decision in the above case, he pleaded guilty, and was fined a guinea.

The Hop Tea Company (Limited).

On the application of Mr. Theobald, in the Chancery Division of the High Court of Justice, on Friday, November 27, Mr. Justice Romer appointed a receiver of the Hop Tea Company (Limited), at the suit of Messrs. Game, Harrison & Lerner (Limited), on behalf of themselves and all other first mortgage debenture-holders.

Artistic Advertising.

In an action Hanfstaengl Art Publishing Company & J. Gerson *v* Holloway, Mr. Warmington, Q.C., on Friday, November 27, applied to Mr. Justice Kekewich, sitting in the Chancery Division of the High Court of Justice, for an injunction to restrain the defendant from printing, publishing, or circulating a piracy of their picture "The Guardian Angel," which had been registered in this country. The original picture was produced, and with it smaller copies of the reproduction, and his lordship would see (the learned counsel said) that these latter had an advertisement of Holloway's Pills on the back. These being circulated gratuitously made the matter a serious one for the plaintiffs.

Mr. Methold, for the defendants, asked for time to consider the affidavits, which, he said, he had not yet seen.

Mr. Warmington said he did not object, upon an undertaking being given in damages, and not to circulate the pictures in the meantime.

Mr. Justice Kekewich: Let the injunction go for a week.

The Sale of Herb-beer.

At the Liverpool Police-court on November 26, William Gee, who was described as a medical botanist, carrying on business at 85 Mill Street, was summoned at the instance of the Excise authorities for keeping a refreshment-house without having a proper licence. Mr. Squire supported the information, and Mr. Neale appeared for the defendant. The contention of the authorities was that the premises kept by the defendant were, according to law, a refreshment-house, and that a licence was necessary, whereby he would be obliged to close at eleven o'clock at night. An Excise officer was called, who stated that he bought at eleven o'clock one night a bottle of herb-porter. There were other customers in the place at the time. It was also stated that there was a counter in the shop fitted up with a beer-engine, and that there were seats and chairs about the place. The herb-porter was analysed by a chemist from Somerset House, and it was found to be practically a saccharine solution slightly flavoured with some herb, and that it contained 1·5 per cent. of proof spirits. Had it contained 0·5 per cent. more proof spirits he would have had to have a beer-licence. The Magistrate: You say he could sell until ten o'clock without a licence, but if after that, he must have a licence? Mr. Squire: Yes. Mr. Neale said that they had to deal with the facts of the case. From the evidence of the analyst it was clear that this was not beer within the definition of the Act. The defendant's premises were to all intents and purposes a chemist's shop, and he made his living by selling concoctions of herbs, as made up and obtained at any chemist's. The porter was sold medicinally. This was a point which had not been raised before in Liverpool, and, if the defendant was fined, the bench ought to fine any chemist

who allowed a seidlitz powder or a black draught to be drunk in the shop. Mr. Squire: No, no; Mr. Neale has not shown that this is a medicine. The magistrate said that the whole question was, Did it come under the head of refreshment? After some further argument, the bench intimated that they were satisfied that this house was one that could fairly be described as a refreshment-house, and one that ought to have a licence. They fined the defendant 5*s.* and costs.

The Formula for Radam's Microbe-killer.

In the Chancery Division of the High Court of Justice, on Saturday, the case of Radam's Microbe-killer Company (Limited), *v. Financial News* (Limited), and H. H. Marks, came before Mr. Justice Chitty. In this the plaintiff company applied *ex parte* for an interim injunction extending over Friday to restrain the defendants from publishing in the *Financial News* or any other publication the trade secret and formula for the ingredients and process necessary for making the medicinal preparation known as Radam's Microbe-killer. The counsel who made the motion read a letter which appeared in the *Financial News*, in which the writer expressed his intention to communicate for publication in that paper what the plaintiffs said was their trade secret. It was said that the writer, who was a Scotchman, and out of the jurisdiction, had been the plaintiffs' manager, and was under a written agreement to secrecy. Mr. Justice Chitty granted the injunction, and gave leave to serve notice of motion with copy of the writ in the action for Friday.

A Chemist's Difficulties.

On Tuesday in the City of London Court, before Mr. Commissioner Kerr, Mr. Frederick A. Shouten, of 69 Fore Street, E.C., sought to have Mr. Kressell, chemist, formerly in business in the City, but now in the service of Sequah (Limited), committed to Holloway prison for the non-payment of 29*l.* due for chemicals supplied. Mr. F. Butterworth, for the defendant, said his client had a number of judgment summonses against him. He was formerly in business on his own account, but he now had a position with Sequah (Limited), by whom he was paid 4*l.* a week. Mr. Commissioner Kerr said, viewing the defendant's indebtedness, it was a question whether he had not better apply to the Bankruptcy Court. However honest a man might be, and however desirous he was of paying 20*s.* in the pound, there was often one creditor who would not wait and who wanted not only his pound of flesh but all the blood connected with it. The defendant had shown his willingness to pay. He would make an order for payment of 1*l.* per month.

"Be Honest and Pay."

Mr. Commissioner Kerr tried a suit on Tuesday in the City of London Court, wherein Mr. Oscar Scholzig, 9 New Broad Street, E.C., sued the defendant Mr. Anthony Percival, 88 Edgware Road, for 4*l.* for photographic chemicals supplied. The defendant raised a plea of infancy, but Mr. E. B. Tattershall urged that photographic chemicals were "necessaries" to the carrying on of the defendant's business. Furthermore he had offered payment since he had come of age. The defendant's solicitor contended that was no ratification, and that the goods were not necessaries inasmuch as the defendant had plenty of material to carry on his business successfully, his mother having spent 300*l.* in stock during the year preceding the date of his majority.

Mr. Commissioner Kerr: He paid a sum on account for which a receipt was given. (To the defendant): Be honest enough, man, to pay this. I must find for the plaintiff. Judgment was accordingly entered for the plaintiff with costs.

Petroleum Act Prosecution.

At the Mansion House Court on Monday, November 30, Jacob P. Heiestad, waterproof-manufacturer, of 80 Fenchurch Street, was charged on remand under the Petroleum Act with having kept on his premises a quantity of petroleum or naphtha, without a licence. H. E. Foster, inspector under the Act, deposed to having visited the defendant's premises and finding there in one room two tin cans each containing one gallon of naphtha; he also found a small quantity in a second room. Mr. Boverton Redwood said he had examined the sample submitted to him, and found that it was petroleum within the meaning of the Act. It gave off an inflammable vapour at 66° Fahrenheit. Mr. Pattinson, for the defence, contended that his client had not had time to divide the petroleum into quantities not exceeding one pint, as provided by the Act: the petroleum had only been on the premises half-an-hour when the inspector called. He further submitted that the Act permitted a person to have any quantity of petroleum up to 3 gallons on his premises, and even if his Lordship overruled this reading of the Act the article had not been on the premises for twenty-four hours, which, if the Act were taken literally, ought to be the case before his client could be prosecuted. The Lord Mayor said the petroleum had no right to be on the premises, and, treating a portion of a day as a whole day, he would sentence the defendant to a fine of 2*l.* and 3*l.* 3*s.* costs.

Sale of Weed-killer.

We hear that the case of the Pharmaceutical Society *v.* Hannaford, which was to have been heard at the December Sittings of the County Court at Newton Abbot, has been settled on payment of the 5*l.* penalty. The proceedings were initiated by the Society in connection with the death of a boy who was poisoned by some arsenical weed-killer sold by a florist.—With reference to the recent case at Sevenoaks, reported in our issue of November 28, the coroner, acting on the recommendation of the jury, has communicated with the Pharmaceutical Society, with a view to having such preparations scheduled as poisons under the Act.

An L.S.A. Neither a Surgeon nor M.D.

On April 28 last, Mr. Samuel Edward Lambert Smith, a licentiate of the Society of Apothecaries, of 144 High Street, Birmingham, was convicted at the Aston Police-court for having unlawfully used the titles of doctor of medicine, surgeon, and physician respectively. The defendant was fined 40*s.* and costs on each of three summonses. Mr. Smith has sought by a writ of *certiorari* to get these convictions quashed, and the case came before the Court of Queen's Bench on Thursday.

The ground upon which Mr. Smith proceeded was that he was "a duly certificated practitioner," held the M.D. Indianapolis and was registered as an apothecary. In giving judgment, Lord Chief Justice Coleridge said no doubt Mr. Smith was an apothecary, but the charge against him was that he signed his name with M.D. after it. He had not the degree of M.D. of any of the universities recognised by the Medical Act, but if he was not claiming to practise and take the privileges under the Act, he would have the right to put his name on his cards or subscribe his name to any publication with the addition of the letters M.D. The question was, Had he broken the Act? He was clearly not an M.D. under the Act. The section under which he was prosecuted—section 40—said: "Any person who shall unlawfully and falsely pretend to be, or use, or take the name or title of physician, doctor of medicine, licentiate of medicine or surgery, general practitioner, or apothecary, or any name, title, or description implying that he is registered under this Act, or recognised by law as a physician, or surgeon, or licentiate of surgery, or apothecary . . . shall be liable to a penalty not exceeding 20*l.*" It was obvious that the heads of practice of a physician were very different to those of a surgeon or an apothecary, and if a person was a physician, to call himself a surgeon was a false and fraudulent description, and the very thing which the Act of Parliament was passed to prevent. Baron Bramwell, in Ellis *v.* Kaye, in 1860, said: "It appears to me that on the true construction of the section any person unlawfully or falsely calling himself a doctor of medicine is liable to the penalty, although he is in reality a member of the College of Surgeons, or of the Apothecaries' Society, and was so registered." That judgment, delivered in 1860, exactly described and decided the case now before the court. The rule for a *certiorari* must therefore be discharged.

Mr. Justice Wright concurred, and the rule for a *certiorari* was discharged, with costs.

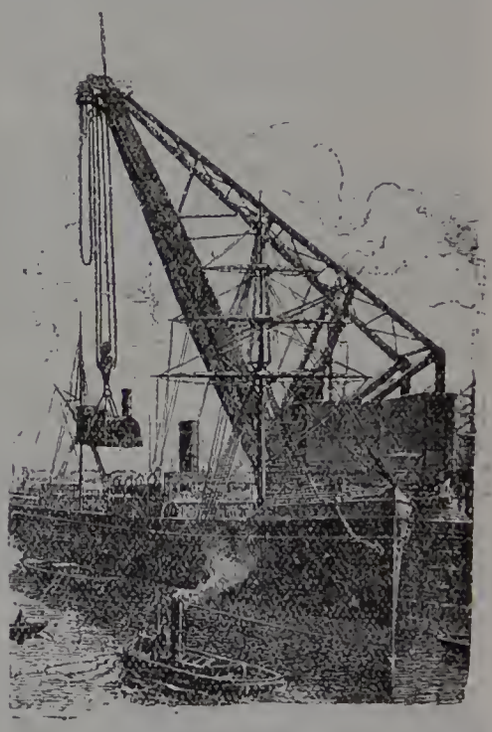
THE PHARMACIST ABROAD.

HAMBURG.

THE important part which London plays in commerce, and specially in the import and export trade, not only of Europe but even of the whole world, is represented on a smaller scale in Hamburg, which is the centre of commerce for Germany and a great part of the Continent, besides having a good transatlantic connection. From the earliest times this German town has taken a prominent position as a port. Since Germany became a united empire, Hamburg has again experienced a new progressive impulse, and on October 15, 1888, entered upon the new era of its commercial history which dates from the opening of the so-called "Freihafengebiet."

The best idea of the extensive changes involved in the construction of this free harbour and of the docks connected with it can be obtained from the statement that within five years 120,000,000 marks, of which one-third was granted by the Government, was expended on the work, while 24,000 persons were obliged to move from their places of residence in order to furnish the necessary space for forming the harbour.

Passing between imposing rows of buildings and over handsome bridges, we board one of the small steam launches which ply all over the harbour, as in this way the visitor can best get a correct idea of the proportions and magnitude of the work.



One point of difference between the London docks and this harbour lies in the fact that, while in the former there are enclosed basins for loading and unloading and for repairing vessels, the Hamburg harbour consists simply of an enlargement of the river-bed with a number of small quays built out from the banks on each side. On the quays stand immense warehouses with wharves, &c. A view of part of these is given in the annexed sketch. The buildings are handsome and architecturally pleasing as also well adapted for commercial purposes. A prominent feature is the monster crane, one of the most powerful in the world, with a lifting power of 3,000 cwt.

Another difference between the Hamburg and the London docks is observable in the relative absence of lumber from the former, due to the ample accommodation they afford and to the purer atmosphere which the Continental city enjoys.

In the warehouses, among large stocks of bees-wax, coffee, leather, and wool, our explorer found also lying in friendly juxtaposition bales of cotton-wool, cotton-seed cake, used for feeding cattle, and—American lard! One could not help involuntarily thinking that the only product of the cotton-plant not professedly represented—namely, the cotton-seed oil—was present in the disguise of American lard.

Tanning materials were also abundant, amongst which were enormous quantities of divi-divi, while on the other hand fine medicinal drugs were almost entirely absent, these being stocked in private store-rooms.

Hamburg is also rich in collections which interest the pharmacist specially, and it possesses at the present time one of the most excellent collections of drugs in Europe, from the East and West African and German colonies. These drugs are to be found in the Botanical Museum, under the direction of Dr. Sadebeck. In many respects this museum resembles that connected with the Kew Botanic Garden.

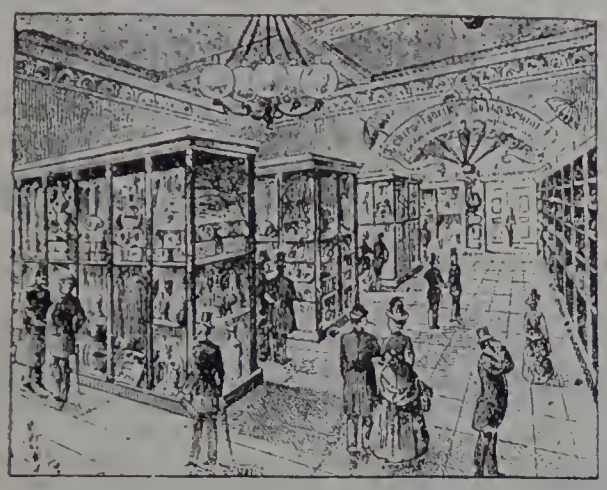
Among the most valuable and unique features of the museum are the fine preserved specimens of the flowers, fruits, &c., of African drugs. There is also a most instructive collection, filling four large cases, of specimens illustrative of the Eucalypti, presented by Baron von Mueller. The British pharmacist should be especially interested by the sections of the stems of *E. rostrata*, in which the newly official red gum can be seen in small fragments embedded in the tissues of the entire wood and bark.

The East African colonies produce some seeds rich in oil which may assume commercial importance. One of the species of this class is *Telfairia pedata*, belonging to the Cucurbitaceæ, the seeds of which are flat and trigonal, with a greyish reticulated outer coat. They contain about 60 per cent. of a fatty oil, which is equal in its properties to the best olive oil. There are, too, the small seeds of *Polygala oleifera*, which are also said to be of considerable value for the oil they contain, those of *Guizotia oleifera*, and many others.

In the same block of buildings is the Technical (Gewerbe) Museum, which consists of an immense collection of the products of art and industry. As in German museums generally, a number of pharmaceutical antiquities are to be found here, among which is a bronze mortar, dated 1551, of early German workmanship. The outside is decorated very artistically with designs and figures in relief. Another striking relic is a hand-balance, highly finished and elaborately chased. The arm which supports the axis of the balance (and by which it would be held) is a very fine work of art, worked from a solid piece of metal, and representing a number of animals, dogs, eagles, and deer, while the knife-edge itself terminates outside the arm in an angel's head worked in silver. One can only mention the beautiful Majolica and Faïence vessels which were used for storing drugs. One particularly handsome specimen of eighteenth-century workmanship, about 18 inches high and 5 inches in diameter, bears the legend "Mummia," with a half-moon, stars, and the sun as emblems.

Not only, however, are these remnants of old pharmacy to be seen, but also specially arranged exhibits representing the

produce of modern times and of a very practical nature. They are designed to show the varieties of articles exported from Hamburg. This so-called export-sample exhibition

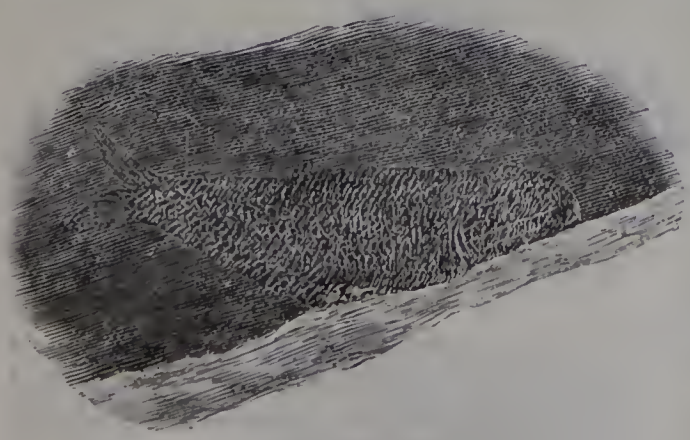


occupies one of the halls of the exchange, and though only commenced in 1884 it contains a large number of commercial samples of the goods produced by Hamburg firms or handled by them as agents. The illustration represents one of the rooms where these goods are exhibited.

Among the samples there is a collection of indigo, illustrative of the various qualities and methods of packing which this valuable material presents. The cutting of the plant, carrying it to the vats and the rest of the treatment which it undergoes, such as pressing and beating, are explained by excellent drawings, as also the cutting, stamping, and packing of the finished product. The Guatemala indigo in irregular pieces, Java in splendid lustrous cubes, Bengal, Chutena, Suddowah and other brands are represented, and three more large pictures are required to illustrate the selling and buying of the indigo for export in the native market.

One enormous vase contains tartar-emetic. The pharmaceutical visitor wonders whether this is a means of establishing friendly relations between the colonist and the natives or whether that fatty cosmetic for the complexion is more relied upon as a talisman in securing the goodwill of the aborigines through the "fair" sex. If these are essentials to the process of being civilised, one can feel little but pity for the future of the unhappy savage. To what minuteness the exhibition reflects the character of the export trade may be gathered from the fact that one firm shows salol lozenges for shipment to countries where cholera may happen to be in season.

Ichthyol, which has a considerable reputation, especially in Germany, in the treatment of skin diseases, and also in certain gynæcological cases, is made at Hamburg from a peculiar bituminous shale, brought from Tyrol which is



believed to be the petrified residue of decomposed fish. Sometimes in the shale is found the distinct impression of a fish, and the portion which is accurately represented in the engraving above is a curiously perfect specimen. It was given to the writer at the works of the Ichthyol Company.

SOME CURES FOR COLD IN THE HEAD.

THE following formulæ are not all published for the first time, but they are seasonable remedies, and we quote them together as a useful collection for druggists to have, in view of the winter trade :—

	Grains
Hydrochlorate of cocaine	2
Menthol	4
Boric acid	30
Finely-powdered coffee	8

Mix.

This is to be taken in pinches five or six times a day.

Sir Morell Mackenzie recommends the following powder :—

Muriate of morphia	1½ grain
Subnitrate of bismuth	1 drachm

Mix, and use as snuff.

The above quantity should last for at least 48 hours. This is the better for the addition of some gum arabic, say 10 grains, which makes the powder adhere better to the mucous membrane. Some physicians prefer to have the soothing effects of bismuth exhibited in the form of an ointment, such as—

Subnitrate of bismuth	1 drachm
White vaseline	1 ,,

To be introduced into the nostrils.

If the irritation is very intense, first introduce a cotton-wool tampon saturated with a 2-per-cent. solution of hydrochlorate of cocaine. A drachm bottle of this solution, with the 2 drachms of ointment, may be sold together.

As a change from the catarrhal smelling-bottle, the following solution is worth attention :—

Pure carbolic acid	20 grains
Solution of ammonia	20 minims
Water	1 drachm
Rectified spirit	80 minims

Make a solution.

Put a few drops of the solution on a cone of paper, and inhale the vapour. This to be done every hour or two during the incipient stage of the cold. As a preventive, the following pills are recommended to be taken at bedtime :—

	Grains
Powdered aconite-leaves	3
Calomel	½
Powdered ipecacuanha	½
Extract of henbane	3

Make into two pills.

In cases where there is a tendency to bronchitis, whenever a cold comes on the pills are said to be very beneficial.

MARRIAGES.

HOLYOAKE—STOREY.—On October 10, at Bishopsbourne, Brisbane, Australia, Mr. W. W. Holyoake, chemist and druggist, late of Leicester, to Mrs. Storey, late of the Rectory, Laidley. The wedding took place in the Bishop's Chapel, and the ceremony was performed by the Right Rev. the Lord Bishop of Brisbane. Mrs. Storey is the eldest daughter of John Warby Barlow, of Staindropfield House, County Durham, a well-known gentleman-farmer of the North of England. Mr. Holyoake is the eldest son of the late Thos. Holyoake, of Leicester, England, merchant.

MARTIN—CLEVELAND.—On November 25, at Above Bar Congregational Church, Southampton, by the Rev. T. Nicholson, William Martin, pharmaceutical chemist, High Street, Southampton, to Constance E. Cleveland, daughter of Mr. Alderman Cleveland. After the wedding the bride and bridegroom left for London *en route* for Cornwall.

PADDOCK—GOOD.—On October 26, at Holy Trinity Church, Bangalore, India, by the Rev. H. A. Williams, M.A., Chaplain, William George Paddock, A.P.S., of Winchester, England, to Mary Ann Corbett, the fifth daughter of Mr. E. J. Good.

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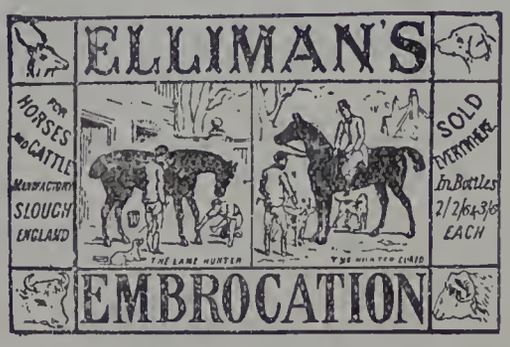
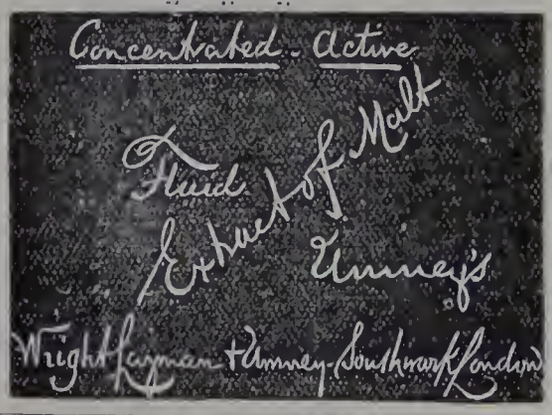


See first page, facing inside of front cover, in this issue, for latest particulars.



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DAY'S OIL OF THE NIGHT

For Sprains, Lumbago, Rheumatism, Cramp, Chest Colds, &c. and general Aches, Pains, and Soreness. 1/1½ and 2/9 per bottle.
Printing, with Name of Chemist, free: further particulars write

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"Mixes with water to make a clear solution . . . a good advance . . ."

MISCIBLE

"The nauseous taste is not there. The laxative properties of the drug are fully represented."

CASCARA

See this JOURNAL, 19th September, 1891.

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Savaresse's Sandal Wood Oil Capsules are now in White Enamelled Metal Boxes.

THE BEST TINCTURES, INFUSIONS, AND SYRUPS ARE THOSE MADE WITH

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PHARMACEUTICAL EVENING MEETINGS.

"THE object and tendency of these meetings is to promote the cultivation of practical Pharmacy; to encourage a friendly and scientific intercourse among all classes in the profession, and thus to promulgate useful information for the benefit of the public."

So it appeared from the annual report presented to the members of the Pharmaceutical Society in 1842. The meetings had been an excellent feature of the first year's work of the Society. They were primarily held in Mr Jacob Bell's

house, and not a month passed without one. Morson, Squire, Bell, Schweitzer, Barry, Redwood, Ince, Mackay, Deane, and others had contributed to them, and altogether forty papers on pharmaceutical subjects were read and discussed, many notes of novelties were communicated less formally, and the Society's professors delivered introductory and other lectures in the educational course which then commenced. It is a matter of history that this first session of evening meetings was one of the most brilliant on record. In the course of the half-century these meetings have occasionally fallen to a low ebb, but never, we believe, has the spectacle been seen which is now presented to the members of the Society. Popular lectures are to be the feature of the first session of the second half-century! Last month one of the Society's professors lectured on "The Flower;" now it is announced that the meetings in December, January, February, and March are to be devoted to lectures on "The Phenomena of Fermentation" by Professor H. E. Armstrong, one of the hon. secretaries of the Chemical Society. There have been indications during recent years that the evening meetings were beginning to lack somewhat in interest, but the most despondent would not have ventured to prophesy such a collapse as this, especially as the starting of the research laboratory promised to provide sufficient material for at least half of the meetings. It would be erroneous to conclude that the laboratory is a failure, or that it is doing nothing, for this very week Mr. Dymond, the demonstrator, has communicated a paper to the Chemical Society on the occurrence of a mydriatic alkaloid in lettuce. Perhaps it may be considered a fair exchange to give the Chemical Society the pharmaceutical papers, and get one of that society's secretaries to give the Pharmaceutical Society's members his views on fermentation. It is possible, however, that some of the members may consider the matter in another light. We have already expressed our views upon the work of the laboratory being reported to the Burlington House Society, and see no reason to alter them; but we do not regard the collapse of the evening meetings as a peril to British pharmacy. It is an incidental circumstance reflecting upon the Pharmaceutical Society and its metropolitan members unquestionably, but the majority of pharmacists, especially provincial men, have learnt to trust more to themselves than to leaders in the centre. Hence the progress which has taken place, notably amongst young members of the trade, in meeting to discuss technical subjects. Moreover, we may claim that the press has done its share in promoting the cultivation of practical pharmacy and promulgating useful information for the benefit of the public. The appetite for practical matters is more widely spread now than formerly, and keener, and it needs a different method of feeding. Five evening meetings of the Pharmaceutical Society in London are unequal to it, and that we take it is the happy conclusion that the committee having charge of them have come to. Perhaps, if the committee had been a degree more energetic, and had a more wholesome regard for the traditions of the Society, they could have got through this winter in the old way. They have done the next best thing to that in arranging for the meetings *en bloc*, and in a way which need not give them, or anybody else, a distracting thought. So let us ferment as quietly as possible.

MENDELÉEFF'S CHEMISTRY.

THE publication during the present week of an English translation of Professor Mendeléeffs' "Principles of Chemistry" is an event of almost universal interest in chemical circles in this country. The Russian chemist's great discovery of the periodic law is familiar to all students of chemistry, but the barrier of language has hitherto prevented that acquaintance with the current of his thoughts and conceptions which we all like to attain to in regard to our great contemporaries. And Mendeléeff must be a man well worth knowing. No one can read ten pages of his book without perceiving how an enthusiastic love of the science to which he has devoted his great abilities has underlain his studies and led him to his discoveries, and to what an extent he possesses the power of imparting his enthusiasm to others.

Mendeléeff's treatise is a work distinct from any other. For him chemical investigation is an inquiry into the laws which regulate matter. He knows there is a reign of law all around him, and more than any living man he has contributed to its elucidation. But the theorist who will explain and simplify the mass of phenomena which has been observed has yet to come. "Newton," he says, "was possible only after Copernicus and Kepler, who had discovered the exterior empirical simplicity of celestial phenomena. Lavoisier and Dalton may, in respect to the chemical mechanics of the molecular world, be compared to Copernicus and Kepler. But a Newton has not yet appeared in the molecular world; when he does I think he will find the fundamental laws of the mechanics of the invisible movements of matter more easily and more quickly in chemical structure of matter than in physical phenomena (of electricity, heat, and light): for these latter are accomplished by already-disposed particles of matter, whilst it is now clear that the problem of chemical mechanics mainly lies in the apprehension of those movements which are invisibly accomplished by the smallest atoms of matter." Throughout his work Mendeléeff keeps principally in view the "laws" which have been deduced from myriads of observations. He is a chemical philosopher, and he deals with the science as one. An individual production, he argues in his preface, "essentially resembles a mirror, which, in reflecting, exaggerates the size and clearness of neighbouring objects, and causes a person near it to see reflected most plainly those objects which are on the side to which it is directed." The side which he presents most prominently is that of the governing laws of chemistry.

Mendeléeff's "Principles of Chemistry" was first written in 1868–70, just at the time when the author was perceiving the periodic law which has since been so closely associated with his name. The English translation which Messrs. Longmans have now published in two handsome volumes (36s.) has been made from the fifth Russian edition, which is brought closely up to date. The translator is Mr. George Kamensky, A R I.M, of the Imperial Mint, St. Petersburg, and Mr. A. J. Greenaway, F.I.C., sub-editor of the "Journal of the Chemical Society," has fulfilled, with obvious ability, the laborious task of editing the English treatise. Both the translator and the editor have, it is apparent, aimed to faithfully present in all respects the original thoughts of the master, and we are confident that their patience and skill will be appreciated by the scientific world here.

A brief outline of the plan of the work is all we shall attempt to give at this moment. First, in a lengthy introductory chapter, the author explains chemistry generally; discusses combination and decomposition; the indestructibility of matter, Lavoisier's work (and it need hardly be said that Mendeléeff is a worshipper of Lavoisier), and conveys a general conception of the elements. The next section deals with water and its compounds, solution, saturation, latent heat, the law of partial pressures, crystallisation, and hydrates being discussed under this head. The composition of water is next considered, and hydrogen and oxygen, and the phenomena of salts, gases, and equivalency are gradually

developed. Nitrogen, the air, and compounds of nitrogen with oxygen and hydrogen follow, and by this time the author is ready to discuss "molecules and atoms," which is the title of a chapter in the middle of the first volume. Then we are introduced to carbon and the hydrocarbons, and to compounds of carbon with oxygen and nitrogen. Treating now on sodium chloride, the laws of reaction stated by Berthollet come under discussion, and we pass on to the halogens, and then to the metals of the alkaline earths. The first volume winds up with a chapter on the valency and specific heat of the metals. The second volume opens with a full explanation of the periodic law, showing the groups, series, and periods of the elements as first arranged by the author over twenty years ago. With some little asperity Mendeléeff comments on the claims put forwarded on behalf of other chemists for priority in this discovery. "Neither De Chaucourtois, to whom," he says, "the French ascribe the discovery of the periodic law, nor Newlands, who is put forward by the English, nor L. Meyer, who is now cited by many as its founder, ventured to foretell the properties of undiscovered elements, or to alter the accepted atomic weights, or, in general, to regard the periodic law as a new strictly-established law of nature, as I did from the very beginning (1869)." Mendeléeff said, if this arrangement of the elements is true, their atomic weights, their valencies, their specific heats, &c., must be definite and definable. He found, for instance, the recorded equivalents of uranium and cerium out of harmony with his law, and with justifiable pride he tells how the researches of many other chemists, as well as of himself, have since established new readings exactly in accord with the law. Since his plan of the elements was first drawn three of the many vacant spaces have been filled up, and gallium, scandium, and germanium have exactly responded to the descriptions of ekaboron, ekaaluminium, and ekasilicon, drafted by him years in advance. In the remainder of the second volume the elements are considered group by group.

We have said enough to indicate the nature of the work. That it will have a fascination for chemists is certain; whether it will answer to learn chemistry from we can scarcely say. Its methods are so different to those we are accustomed to, and it must be said that many of its explanations are very hard reading. All through there are two texts—one in larger type, which is for the student, and may be read by itself; and annotations, in a smaller type, in the form of footnotes, which are supposed to discuss further the matter treated in the upper part of the pages. These are not much less in bulk than the treatise proper. No one capable of reading the book—that is to say, no one but a machine-minded student—could go through the work in the way recommended. If he became interested in his subject he would be forced to read the commentary. But we are not sure that this form of dealing with complicated subjects does not add to the interest by often presenting similar ideas in two forms of language.

ERGOT OF RYE.

Ergot of Rye is not a drug of first-class commercial importance, but, in the absence of any excitement in the market position of articles of larger pharmaceutical consumption, it has temporarily become the most-talked-about drug of commerce. This autumn, after a brief period of suspense caused by the uncertainty whether the failure of the rye crop in Russia would cause an abundance of ergot or none at all, the balance of opinion slowly inclined towards the latter view. Opinions rapidly matured into conviction, and the advance in the price of ergot, slow and halting at first, has now grown into a steadily progressing movement. So far as it is possible to judge of the situation at present, there is every reason for believing that the rise will go on without encountering any serious obstacles until it is possible to form an opinion of the prospects of the coming crop—that is to say, until well into the summer of 1892. There is some possibility, of course, that stocks of ergot large enough to influence the market are kept concealed by astute speculators, but the likelihood of such a circumstance lessens day by day. It is equally possible that speculators may succeed in temporarily forcing the price of ergot to such a figure that consumers will refuse to buy, although there is probably still a good deal of latitude between the present quotation and one which would be considered prohibitive, especially as there is no effective substitute in therapy for either ergot or its preparations. At the commencement of the harvesting season there was a general expectation that the unusual dampness of the summer would have favoured the formation of the ergot fungus; and such, indeed, seems to have been the case in all European countries except Russia, where the rye crop failed, not from excess of moisture, but from a precisely opposite cause. Now, it is upon Russia that the world mainly depends for its requirements in ergot of rye. How large a quantity that country produces is not even approximately known, as the exports of ergot are not specially defined in her official statistics. The average Russian production is probably not less than 150,000 to 180,000 lbs. per year, representing an approximate value of, say, 10,000*l*. It is not unlikely that, if the Russian ergot were all carefully picked and brought into commerce, her production would be largely increased, for it is only a few seasons ago that some of the northern departments of the Empire began to offer ergot upon the markets, the crop having formerly been destroyed because it was thought to be valueless. Since 1880 Russia has only had three heavy crops of ergot, while in five seasons her production has been much below the average. The absolute loss of a Russian crop, however, such as appears to have occurred this season, has not been heard of for very many years. For this reason one would be inclined to place some faith in the statement which has been circulated, that the reason why there has been no Russian ergot is because the exporters of rye, in order to take advantage of the short period of grace allowed before the ukase prohibiting the export of that cereal came into force, gave themselves no time to separate the ergot from the grain, but shipped it right away to Germany, where most of the ergot (such as did exist) was subsequently picked out. There may be some truth in this statement, but at present Russian ergot appears to be obtainable neither in Germany nor in Moscow, which is the Russian centre for the article. At the same time it should be stated that for several years Russian ergot has been losing its importance as an article of trade in the English market, and that Spanish, which is the variety most generally used in America, has taken its place, while Italian and other continental varieties are also increasing in importance to some slight extent. It is to Spain, then, that we must look for supplies to tide us over the season of scarcity. Here, again, we have no statistics to guide us in estimating the production. But that the Spanish crop has been a good one this season is pretty certain. Ergotisation is a very common disease in the rye of the northern provinces of this country, and it is stated upon good authority that of every three ears of rye in the province of Galicia one is afflicted by this disease. The United States are by far the largest consumers of ergot of rye, the average imports being now about 125,000 lbs. a year, while fifteen years ago they

were barely 25,000 lbs. If the demand for ergot from America should continue to advance in the same proportion (which one can scarcely think likely), prices may be permanently affected. In England the regular therapeutic use of ergot of rye only dates from the third decade of the present century, and when first introduced it cost no less than 48*s*. per lb. Such a quotation is not likely to recur. Upon the active principles of ergot authorities unfortunately still differ widely. There is hardly a drug of which the action appears more uncertain. Professor Kobert, of Dorpat, who is, perhaps, the greatest authority on the question, maintains that cornutin and sphacelinic acid are the only active principles of the corm, and that these are very liable to be lost when ergot is kept. Corms which were only two years old were found by Professor Kobert to be almost inert. These had been kept in a bag, but the efficacy may be preserved somewhat longer by storing the ergot carefully in tin-lined receptacles after re-drying it, and keeping it in a dry warehouse. Sclerotic acid, which other investigators declare to be the most important therapeutic constituent of ergot, does not appear to be much affected by the decay of the drug and is present in apparently undiminished vigour, even in the most worm-eaten samples.

COMMENTARY.

How to Introduce the Metric System.—The *Scientific American* wants to see the metric system introduced into the United States. It is legal there, but is not compulsory; and to give it the necessary spur the *S. A.* suggests that Congress should pass a law requiring that estimates, contracts, and bills specifying weights or measures, when not made out metrically, must bear a revenue stamp of 5*d*. Scientific men of old were racked to make them renounce their beliefs; their successors want to avenge their wrongs by taxing their persecutors to make them fall into line.

Boric Acid as a Preservative.—Sir Henry Thompson has given his opinion on the use of boric acid as a preservative. He says that while the quantity necessary to maintain milk and cream in a wholesome condition might not be injurious to adults, it would certainly be harmful to children under three or four years of age. He would permit "a small quantity," provided the seller declared the fact on a label, otherwise he would prosecute. It is significant that the Local Government Board have declined to advise on Sir Henry Thompson's report, on the ground that they have "no facts within their knowledge" regarding the wholesomeness or otherwise of the acid.

Some American Baking-powders contain ammonia. Some do not. There are young lady agents of the makers of the latter going about from house to house just now, and when anyone of them succeeds in getting an interview with a housekeeper she states that the object of her visit is to analyse baking-powders free of charge, and tell whether there is any ammonia in them. If furnished with a sample, she by simple means evolves the characteristic ammonia odour from any powder containing it, and, after a brief explanation of how ammonia is produced from the drainage of stables and similar savoury sources, departs with a hint that Blank's baking-powder contains none of the bad-smelling chemical. So the *Druggists' Circular* reports, and it adds that other means are taken to discredit ammonia baking-powders, the result being that the manufacturers are beginning to retaliate. It is stated that it is tartrate of ammonia which is used.

English Secret Remedies in Spain.—Who is "the honourable sapient doctor, Philip Stedman," physician to a children's hospital in London, whose children's remedies are being puffed in shabby blue pamphlets distributed broadcast through Spain? He gets some Spanish surgeons to assist him in drawing up harrowing accounts of infantile mortality in Spain, and beautiful descriptions of cures effected by "Stedman's dentition powder," and the like. These powders, he states, are the only ones of which it can be guaranteed that they are the result of practice in the "Great Royal Children's Hospital in London." Mr. Stedman is very wroth with the medical press of Spain for having ventured to question the existence of the "Great Royal Children's Hospital" in London, where he is reputed to have gained that invaluable practical experience which (as no prophet is honoured in his own country) he generously places at the disposal of the mothers and children of far-off Spain—price two pesetas the box. "The honourable and sapient doctor" has instituted proceedings for libel against one of the Madrid professional journals. In his advertisements in the Spanish papers the name appears as "Philip Stedman," which is one that does not figure on the British Medical Register. There is only one James H. Stedman on that Register, and that gentleman tells us that he has nothing to do with the Madrid children's-powder man. Nor is there such an institution as the "Great Royal Hospital" for children in the London Directory.

ON A NEW SERIES OF ACIDS DERIVED FROM THE FATTY ACIDS BY THE EXTRACTION OF HYDROGEN.

By J. Alfred Wanklyn and William Johnstone.

In the year 1865 one of us, having before him the task of identifying a most costly organic product which, on investigation, turned out to be propione, produced by the action of carbonic oxide on sodium-ethyl, invented the method of "limited oxidation."

There are several varieties and developments of this method of limited oxidation, as may be seen on consulting the Journal of the Chemical Society for 1865 and the years immediately following

We have now taken up the subject of limited oxidation, as applied to the high members of the fatty-acid series.

Operating on commercial stearic acid (which, as we have shown, is in reality margaric acid) we have cut off hydrogen without any breaking-down of the acid, and obtained a new acid, which differs in formula from the substance from which it is derived by containing a smaller percentage of hydrogen and possessing very striking and extraordinary properties, an account of which will be published shortly.

Operating on palmitic acid in a similar manner we have cut off hydrogen, apparently without any breaking-down of the acid, and obtained an acid which has the same composition and appears to be identical with the alde-palmitic acid discovered by one of us in butter, and announced to the Society of Chemical Industry last January.

The reaction appears to be of the widest generality, pertaining, we expect, to the low members of the fatty series.

Not well-known to the Editor.—The *British Medical Journal*, noticing the death of Mr. T. H. Hills, refers to him as "the senior partner for many years in the firm of Jacob Hills & Co., the well-known pharmaceutical chemists."

A Poor-law Dispenser.—The guardians of the Holborn Union on Wednesday decided to give their dispenser (Mr. Hewett) leave of absence because of ill-health; and instructed their clerk (Mr. J. W. Hill) to employ a duly qualified dispenser to act in his stead.

Trade Notes.

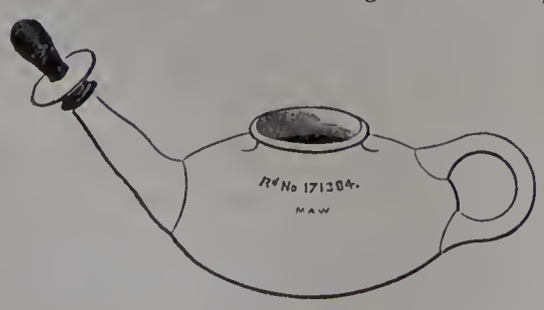
MESSRS. BLONDEAU & CIE. ask us to tell chemists that they are always ready to replace shop-worn goods by fresh ones.

CHRISTMAS TRADE.—Messrs. Armbrecht, Nelson & Co. are offering, on best wholesale terms, packages of their various coca products, each containing six bottles of wine, one of wine extract, and a box of coca lozenges, the whole packed in style suitable for a Christmas present.

THE Chesebrough Manufacturing Company make an important announcement in regard to the supply of their vaseline. For the present they are unable to supply vaseline in 5-lb. tins, but the prices at which they offer penny tins and fivepenny bottles leave little reason for the most frugal chemist to complain. He could hardly put up the article at a cheaper rate.

MESSRS. ARMOUR & Co. have considerably improved the style in which they put up their extract of meat. This extract is made at their cattle-slaughtering works in Chicago. It is rich in nitrogenous principles and phosphates, and is well adapted for invalid and ordinary dietary. "Vigoral" is the name of a form of the extract representing the whole of the constituents of beef, including the fibre, which is intended to be used as a winter food-beverage. Both these articles are well adapted for chemists' sale.

MAW'S FEEDING-BOTTLES.—To the abundant assortment of infants' and invalids' feeding-arrangements now on the market, Messrs. S. Maw, Son, & Thompson have added a new feeding-bottle, the principle of which is, we understand, provisionally protected, and a feeding-cup, the design of which is registered. The bottle is to be known as the "No. 11 Feeding-bottle." Many mothers find it so difficult to ensure that their nurses keep the tubes of the feeding-bottles clean, that there exists all over the country a certain proportion of purchasers with a strong prejudice against all bottles fitted with tubes. Various bottles have been designed to meet the demand for a tubeless feeder, and the old-fashioned boat-shaped bottle is still in some request. The difficulty has been to ensure a sufficient vent to allow the liquid to flow freely when the child sucks without incurring at the same time a leakage which messes the bottle and its surroundings. In the No. 11 this objection seems to have been satisfactorily disposed of by the device of a leech-bite in the teat below the shield. This acts with valve-like regularity. In sucking from the nipple, the leech-bite below opens, and admits air. When the sucking stops, the leech-bite is closed, and the bottle may be laid about in any position without leaking. The Feeding-cup



needs no description beyond the drawing, except to state that it is made of porcelain. The ease with which it can be used and cleaned is obvious.

MESSRS. G. VOGT & Co., of Wilson Street, Finsbury, have shown us specimens of the Christmas novelties, an assortment of which they offer to chemists. These are attractive and cheap. Birds containing bottles of perfumes, or bottles of lavender salts manufactured in Japan, and other Japanese and Parisian designs of perfumery-caskets, made to sell at from 6*d.* to 5*s.*, are very pretty. Fancy cases of toothpicks, which will retail at 2*d.* or 3*d.*, also Japanese, are a good chemists' article, and Messrs. Vogt & Co. are also offering a good and cheap soap with chemists' own name.

WE had occasion to mention during the past summer that the Malted Milk Company (39 Snow Hill, E.C.) were bringing under the notice of medical men Horlick's Malted Milk, a food designed for infants. One of the principal ingredients of the "Milk" is Horlick's dry Extract of Malt, a sample of which, and one of the foods, we have had the opportunity of examining. The extract of malt is a hygroscopic powder of a cream colour; it dissolves readily in hot water, and we find that it is possessed of good diastatic power. Some medical men are fond of prescribing malt as an addition to infants' food, such as arrowroot and cornflour, ordinary powdered malt being used for this. Such a preparation as this Malt Extract of Horlick's possesses obvious advantages over the crushed malt, as it can be added directly to the food without preliminary infusion. A teaspoonful of it added to a cupful of any farinaceous jelly renders it in a few moments sufficiently liquid to be poured into a feeding-bottle. The malted milk forms, with warm water, a fluid in appearance and taste exactly like milk. Babies are very fond of it, and its nourishing properties may be judged from the fact that the food consists of 50 per cent. of milk solids, 26·25 per cent. of wheat, and 23 per cent. of the malt extract, with a small proportion of carbonated alkali. Of course, the wheat is in a cooked state, as the makers make a point of merit in regard to the food that it requires no cooking, simply the addition of warm water. Both these articles are of such a standard, and so nicely put up, that chemists will be able to do good business with them.

Personalities.

MR. WM. THOMAS, Aberdare, is retiring from business, and Mr. Morgan Smith is succeeding him.

MR. DAVID HOOPER, F.I.C., F.C.S., has been proposed as an examiner in chemistry to the University of Madras.

MR. W. F. UMNEY, M.B.Lond., L.R.C.P., M.R.C.S., has been appointed Senior Obstetric House-Physician to St. Thomas's Hospital.

MR. WALLACE E. CURTIS, from Squire & Sons, has purchased the business at 37 Fore Street, Totnes, formerly carried on by the late Mr. P. W. Michelmore.

MR. SYDNEY PLOWMAN, F.R.C.S., who a few years ago went out to Melbourne to take the principalship of the Melbourne College of Pharmacy, has resigned the appointment.

MR. H. N. BOWMAN SPINK, chemist, Westminster, has been returned as a "progressive" member of the London School Board. Mr. Spink has previously served on the Board.

MR. J. T. RAYSON, Jubilee Buildings, 280 Alfred Street, Nottingham, has purchased the business carried on for the last eight years by Mr. Robert Stafford at 140 Woodborough Road, and will carry it on as a branch establishment.

MR. SEPTIMUS VAUGHAN MORGAN, one of the proprietors of this journal, is on a tour round the world. He is now in India, and may be addressed by firms or subscribers, until further notice, Poste Restante, Bombay. For full itinerary, see this Journal, October 3, 1891.

CAUTION.—A young man representing himself to be a son of Mr. J. Thompson, 58 Hanover Street, Liverpool, called at the Harleno Depôt, High Holborn, about three weeks ago and borrowed a sovereign. All friends of Mr. Thompson are warned against this industrious borrower.

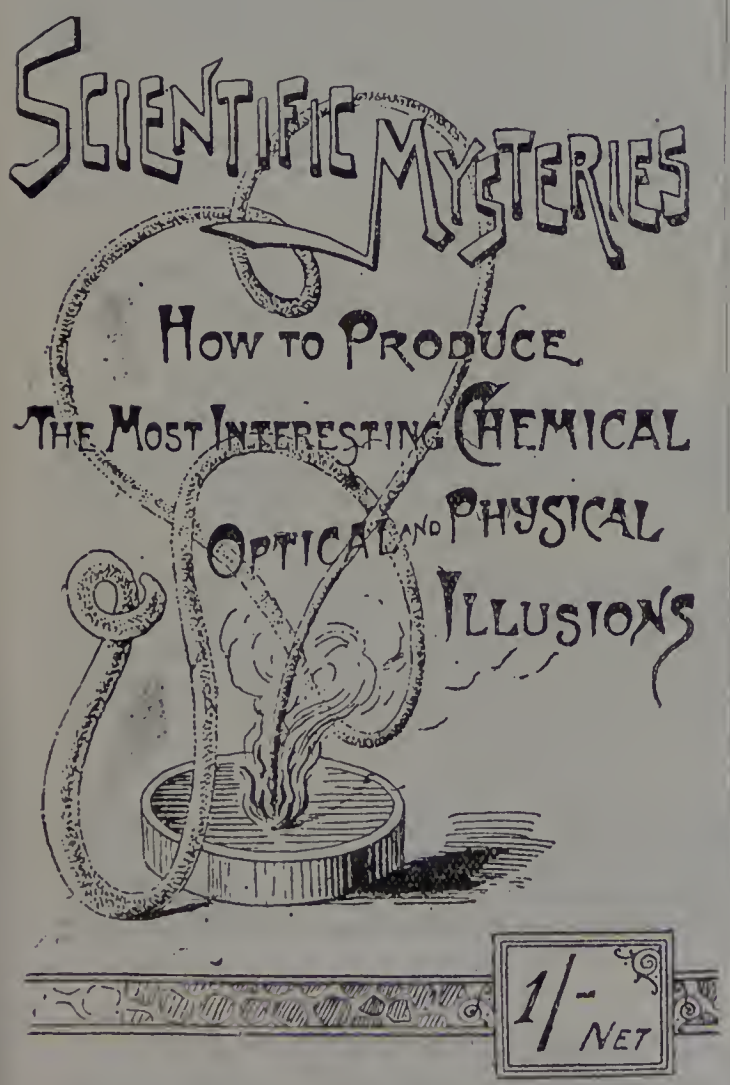
"THE PIPER O' DUNDEE" for November 25 gives a very good portrait of Mr. James Braik Mason, F.C.S., the teacher of chemistry at the Dundee Y.M.C.A. Science School. Mr. Mason is a chemist and druggist, and a very successful teacher. Fifty certificates have come to his pupils this year.

SCIENTIFIC MYSTERIES.

THIS book is to be a great success. Several thousand copies were subscribed for before the book was ready, and we are just now getting orders out. By the end of this week supplies will have been sent to all parts of the country.

"Scientific Mysteries" contains 100 pages of text, with details of nearly 200 experiments, and with over 80 illustrations. Everybody is interested in scientific facts presented in this manner, with such explanations as are necessary, and the low price of the book will ensure its sale wherever it is shown.

The sketch below is a reduced copy of the design on the cover of the book.



For less quantities than one dozen, 1*s.* per copy must be paid. We supply the books in 1-dozen parcels, each containing an effective showcard in colours. Each dozen books will be in assorted bindings, so that an attractive show can be made.

We want chemists to sell it, and we do not want anyone to cut the price of it. But, in reply to several correspondents, we must state that we cannot guarantee to keep the sale in the hands of chemists, nor can we undertake by any scheme of contracts to prevent the price being cut. It would not pay us to take the precautions necessary to ensure this result. What we can do in reason, when we know of a retailer who is cutting, shall be done by us, and we have reason to hope that we shall be able to prevent reduction of the retail price below the "1*s.* net" marked on the cover.

Chemists should observe that the profit dependent on the sale of the book is likely to be much greater indirectly than directly. That is to say, it should and will have the effect of introducing or promoting a considerable business in the chemicals and apparatus necessary for producing the illusions described.

Chemists should stock the book before Christmas. For one dozen the price is 8*s.* 6*d.*, either from us or from any of the undermentioned firms:—

Ayrton & Saunders, 149 Duke Street, Liverpool.
Barclay & Sons (Limited), 95 Farringdon Street, E.C.
Bleasdale, Wm., & Co., York.
Boileau & Boyd, 91–93 Bride Street, Dublin.
Clay, Dod & Co., 52 St. Anne Street, Liverpool.
Duncan, Flockhart & Co., 104 S. Canongate, Edinburgh.
Edwards, Wm., & Son, 157 Queen Victoria Street, E.C.
Evans, Gadd & Co, 97 Fore Street, Exeter.
Evans, Lescher & Webb, 60 Bartholomew Close, E.C.
Evans, Sons & Co., 56 Hanover Street, Liverpool.
Glasgow Apothecaries Company, 32 Virginia Street, Glasgow.
Harris, Philip, & Co. (Limited), Birmingham.
Harrison, Parkinson & Co., Bradford.
Hirst, Brooke & Hirst, Leeds.
Ismay, John, & Sons, Newcastle-on-Tyne.
Lloyd, T. Howard, & Co., Leicester.
Maw, S., Son & Thompson, Aldersgate Street, E.C.
May, Roberts & Co., 9 Clerkenwell Road, E.C.
Newbery, F., & Sons, King Edward Street, E.C.
Oldfield, Pattinson & Co., Manchester.
Pinkerton, Gibson & Co., Edinburgh.
Potter & Clarke, Raven Row, Artillery Lane, E.
Raimes, Clark & Co., Edinburgh.
Raimes & Co., York.
Sanger, John, & Sons, 489 Oxford Street, W.
Silverlock, H., 92 Blackfriars Road, S.E.
Southall Bros. & Barclay, Birmingham.
Sutton, W., & Co., 76 Chiswell Street, E.C.
Thompson, John, Hanover Street, Liverpool.
Thompson, Walters, Hole & Co. (Limited), Curtain Road, Great Eastern Street, E.C.
Woolley, James, Sons, & Co., Manchester.
Wright, Layman & Umney, Southwark Street, London.
Wyleys (Limited), Coventry.

Our price (8*s.* 6*d.*) includes delivery in the City of London only. Purchasers must pay their own carriage. They will get the books at our prices included in their parcels if they order from any of the wholesale firms named above.

AT THE COUNTER.

"½ oz. tin rub., 1*d.* lodom, ½ oz. paragiet, 1 oz. liginest." This is a style of prescription familiar all over the country. This particular one is sent from Lincoln.

A BOY who stuttered once went into a chemist's shop for some ipecacuanha wine. "If y-you p-please, I want a p-p-pen'orth of ip-ip-ip— —" Boy behind the Counter: "Hooray!" The boy had been "out" the night before.

THEY seem to have uncertain ideas about labial sounds in South Devon. In a collection sent us from that part of the country we find "yellow misseleken," "edsom salts," "balsam of baloria," "bazaline," "homeopathic oil for a spirit lam," and "antacbus bills." The customer for the last-named also wants some "colored lamo."

BANKRUPTCY REPORT.

The "Moonseed Bitters" Bankruptcy.—Debtor before the County Court Judge.

The protracted proceedings in the bankruptcy of Albert Edward Powell, Woodland, Swindon, manufacturer of "Moonseed Bitters" patent medicine, reached another stage—and there is some probability of this being almost the final one—on Tuesday last, when the matter came before his Honour Judge Caillard, at the Swindon County Court. The Official Receiver (Mr. H. C. Tombs) was present; Mr. G. M. Butterworth represented the debtor; and Mr. H. Bevir, solicitor, of Wootton Bassett, appeared for Mr. Butterworth, and also for Mr. H. J. Deacon, jeweller, of Swindon, both of whom were interested in the debtor's affairs.

The Official Receiver said the matter had been referred to his Honour by the Registrar because the debtor had not complied with an order of the Court to file particulars as to what had become of some 4,000*l.* worth of jewellery, which he had bought of Messrs. Jackman, of Bath, and which had passed into the hands of Mr. Deacon and Mr. Butterworth.

Mr. Butterworth addressed his Honour, contending that the bankrupt had rendered all the information he could give in the matter.

The Official Receiver said the debtor had not done so, and he (the Official Receiver) had already applied to the Court to have the examination adjourned *sine die.*

Mr. Butterworth said this was not necessary, as debtor was now ready to be examined before his Honour, and he would inform the Court that he had done all that lay in his power to assist the Official Receiver. Debtor was sworn, and examined by Mr. Butterworth, and said he was made bankrupt in April last. He prepared a scheme which was rejected by his creditors at the first meeting. He had been examined at great length upon his dealings with him (Mr. Butterworth) and with Mr. H. J. Deacon. With regard to his dealings with Messrs. Jackman, of Bath, he first paid them in cash and then by bills. He purchased goods to the extent of 4,295*l.* 13*s.* 6*d.*, but the value put upon them was excessive. He deposited certain of the articles with Mr. Deacon, who lent him sums of money upon them. He also had advances from Mr. Butterworth, and let him have some of the jewellery. The money he received was put into the "Moonseed Bitters" business, and expended for the benefit of his creditors. He had kept none of the jewellery himself, but he gave some of the articles to his wife. She pledged them, and the money went to pay debts owing by him (the bankrupt). The Official Receiver had a stock of "Moonseed Bitters" which he (bankrupt) had made an offer to purchase. With regard to the jewellery, he initialed Messrs. Jackman's bill of the jewellery to show what goods his wife had disposed of.

Cross-examined by the Official Receiver: He never had any account of his transactions with Mr. Deacon and Mr. Butterworth, but he believed those gentlemen kept a memorandum. The letter he wrote on October 22 last, and handed to the Official Receiver with the pawn-tickets, was written with the assistance of, and at the dictation of, the Official Receiver himself. Mr. Deacon had kept a debit and credit account of his dealings with him, but he would not give him (debtor) any particulars of such account. In further cross-examination, debtor said he bought the jewellery and plate with the intention of keeping them. He did not ask Mr. Deacon for a duplicate of the list of jewellery he had; he did not consider Mr. Deacon's a pawnbroker's shop. If he had gone to a pawnbroker he should have had a duplicate.

Re-examined by Mr. Butterworth: He heard Mr. Deacon and Mr. Butterworth make an offer to give a list of the jewellery they had. That offer was made in the presence of Mr. Bevir. The articles which his wife had to pledge she took to London, and the money went for the benefit of some of his creditors. Mr. Butterworth had given up some of his own jewellery to enable him (debtor) to do the same thing. The Official Receiver had told him that he had done more than any other bankrupt to assist him.

Mr. Butterworth said he had no other witness to call, but he would like to go into the witness-box himself and he examined. His Honour asked what *locus standi* Mr. Bevir had in the case, as appearing for Mr. Butterworth.

Mr. Bevir said he did not think he had any *locus standi* except to explain the true situation.

His Honour, to the Official Receiver: Do you wish Mr. Butterworth to be examined?

The Official Receiver: Certainly, I should be glad.

His Honour said he would admit such evidence.

Mr. Bevir said he did not at present wish to examine Mr. Butterworth, but he would like to address his Honour, and he would not travel outside the offer made in a letter which he had written to the Official Receiver promising to give what information was required, provided that the private examination of Mr. Butterworth should be closed. Mr. Bevir proceeded to address his Honour at some length upon this point, and also upon the old question of the jewellery which debtor had from Messrs. Jackman, of Bath: and, in conclusion, said Mr. Deacon had already tendered what information was required of him, and Mr. Butterworth was ready and willing to give what information was required of him, provided his private examinations were closed.

The Official Receiver accepted these terms, remarking that he was surprised, and also pained, to think Mr. Butterworth and Mr. Deacon had not met him in the way he thought they ought to have done.

His Honour, addressing Mr. Bevir, said: Then if you give this information you promise, the Official Receiver's application will be withdrawn, and the public examination will be closed.

The case was thus concluded.

POISONING TRAGEDIES.

Did Not Understand its Nature.

Edward Woolley, 21, a labourer, of Normanton, suffered from toothache, and bought an ounce of laudanum at Derby. He appears to have taken the whole of it, and the doctor believed he did so in ignorance. The jury came to that conclusion.

Poisoned Grapes.

A lady has died in New York through eating grapes which were found to have been contaminated with an arsenical solution which the grower had used for spraying his vines to destroy insects. It appeared that the solution was sprayed on to the grapes while they were ripening, and the skins having been punctured by the insects the solution was introduced inside the fruit.

Hyd. Chlor. and Chloral Hydrate.

A man named Price is suing a New York druggist for $10,000 damages for an alleged dispensing error. He says he took a prescription to the druggist in which was ordered 4 drachms of hydrate of chloral, and he alleges that the druggist gave him corrosive sublimate, which nearly killed him, and has so injured him that he will never recover. The druggist denies the mistake.

Strychnine Poisoning.

Lavinia Emery, 40, widow, residing at Islington, committed suicide on Tuesday in a most determined manner while sitting at tea with a William Bell. She poured a white powder from a box into her cup and drank it. She became ill, and Bell ran for medical aid, but in spite of all the doctor's efforts she died. It is said that the deceased sent a boy to purchase the poison a few days previously, with the message that it was to destroy mice.

Set Himself Free.

A prisoner named Baker, convicted at the Newcastle Assizes on November 26 of an abominable offence, was sentenced by Mr. Justice Wills to ten years' penal servitude. Baker exclaimed that he was not guilty, and before leaving the dock waved his hand as though in farewell to several relatives in court. He then walked down the stairs leading to the cells, but had only gone a few steps when he placed a bottle to his mouth, swallowed a draught from it, and suddenly fell into a warder's arms. It was prussic acid he

drank, and he died in a few seconds. He had been out on bail, and must have purchased the poison in order to commit suicide if found guilty.

One Poison was Forgotten.

Lady Williamina Marsh, wife of Sir Edward Marsh, poisoned herself with sulphate of mercury, which her husband, Sir William Marsh, had in the house for some electric experiments. Sir William Marsh said his wife had been depressed, and he seemed to expect suicidal tendencies, for he put carbolic acid, a revolver, and a dagger away in safety, but forgot all about the sulphate of mercury, which he had bought in Dunedin, New Zealand. Dr. Scott gave evidence of her ladyship having suffered intensely from an internal malady, which caused occasional fits of depression. The jury found she took poison whilst temporarily insane.

Carbolic Victims.

Mrs. Elizabeth Inglis, wife of a printer at Liverpool, had lost a son, and had been upset and strange since the event. One morning she went into a neighbour's house and asked her to look after her children, then she drank from a cup which she said contained "two pennyworth of carbolic." Soon she became unconscious, and was taken home and died. A pathetic letter was found, in which she told how she could not sleep, her work seemed all upset, and how every day seemed so dark and she could not manage her house. She also expressed much love for her husband. "A letter which seemed to have come from the woman's heart," remarked the coroner.—Margaret Botsford, a domestic servant at Chester, about 40 years of age, went into an outhouse and there took carbolic acid, from the effects of which she died. No motive was assigned. Verdict, "Suicide while temporarily insane."

A Druggist's Porter Takes Prussic Acid.

An inquest was held on Friday, Nov. 27, concerning the death of David Turkington, 35, a porter in the service of Messrs. Herrings & Co., wholesale druggists, 40 Aldersgate Street. He committed suicide by taking prussic acid. Alfred Williams, a chemist in the employ of the same firm, said deceased had been there twelve years. He was of sober habits, and had never appeared depressed. On Monday morning he came to business as usual. He had access to chemicals and poisons. Prussic acid was wanted every day. Turkington was not under notice to leave, and witness could assign no reason for the suicide. At a quarter to ten witness was called to the store-room, where he found the deceased unconscious, and supported by two boys. A doctor was immediately called, who pronounced life extinct. The deceased had four children. Thomas Slater, one of Messrs. Herrings' assistants, said that on Saturday the deceased had complained to him of being in pain internally. Witness found the bottle close to where the deceased was discovered ill, and there was a second empty bottle in the same room. The blue bottle was behind some empty bags. Further evidence showed that the deceased was happy and comfortable at home. The jury returned a verdict of "Suicide while temporarily insane."

WILLS OF DECEASED CHEMISTS.

The will, dated October 6, 1886, of the late Thomas Archer, late of Southam, Warwick, pharmaceutical chemist and banking agent, who died on March 14 last, has been proved. The gross value of the personal estate is 402*l.* 1*s.* The testator bequeaths the whole to Elizabeth Archer, his widow and sole executrix.

The will of the late Mr. Charles William Banister, formerly of Liverpool, who died on September 5, 1890, at Liscard, Cheshire, has been proved at the Chester Divisional Probate Registry. The executors are Mr. George Jennings Rowland, of Egremont, and Mr. Howard Cottrell Banister, of Liverpool. The testator leaves all his property, both real and personal, including plate, horses, and carriages, to his widow, for her absolute use. The gross personalty amounted to 580*l.* 19*s.* 3*d.*, and the net to 57*l.* 8*s.* 3*d.*

The will, with codicils, of the late Mr. William Bradley, of Wisbech, chemist and druggist, who died on May 26, 1891, was proved at Peterborough on July 9 by Mrs. Bradley, the widow, Miss M. J. B. Bradley, the daughter, and Mr. Eli Vassar, the executors. The gross value of the personalty amounted to 1,934*l.* 12*s.* 9*d.*, and the net to 1,549*l.* 12*s.* 7*d.* The testator bequeaths the goodwill of his business, subject to the payment of 1*l.* a week to his widow, to his son, Mr. F. W. Bradley. The bulk of his property, real and personal, he leaves in trust for the benefit of his widow for life, with remainder to the younger children.

The will of the late Mr. Charles Butland, of Bridgetown, Totnes, who died on September 27, 1890, has been proved at the Exeter Probate Registry by Mr. Charles Butland, the son, and Miss E. Butland, the daughter, whom the testator appoints as his executors and trustees. He leaves to his said daughter his linen, plate, furniture, pictures, and wines. The residue of his property, real and personal, is to be converted into cash and to be divided among his children. The gross value of the personalty amounted to 3,348*l.* 13*s.* 4*d.*, and the net to 3,313*l.* 11*s.* 11*d.*

Letters of administration of the personal estate of the late Mr. Andrew Chambers, of Amble, chemist and druggist, who died on January 14, 1891, intestate, have been granted to his son, Mr. W. G. Chambers, the only next-of-kin. The gross personalty amounted to 114*l.* 17*s.* 9*d.*

The will of the late Mr. C. E. Gilbert, of Birmingham chemist and druggist, who died on January 27, 1891, has been proved at the District Probate Registry by Mrs. Gilbert, the widow and sole executrix, to whom the testator bequeaths the whole of his estate, real and personal, absolutely. The gross personalty amounted to 456*l.*

The will of the late Mr. Walter Hibbert, pharmaceutical chemist, of Neath, who died on September 25, 1890, has been proved at Llandaff Probate Registry by Mrs. Hibbert, the widow and sole executrix. The personalty was sworn under 4,000*l.* The goodwill of his business as a chemist the deceased leaves to his son, Mr. W. G. Hibbert, together with the shop-fixtures, &c., subject to the payment of 100*l.* a year to his mother. To his daughter the testator leaves 60*l.* per annum. The bulk of his property, real and personal, subject to foregoing charges, the testator leaves to his widow for life.

At Birmingham Probate Registry on May 26, 1891, administration of the personal estate of Mr. W. Orme, of Atherstone, chemist, who died on March 27, 1891, was granted to Mrs. Orme, the widow. The gross value of the personalty amounted to 1,709*l.* 1*s.* 6*d.* The testator leaves his widow an immediate legacy of 100*l.* He had appointed executors, and directed his business to be carried on by them in trust until his son attained 25 years of age, but one died, and the other renounced. He constitutes his widow residuary legatee for life.

The will of the late Mr. Robert Denzil Brown, chemist and druggist of Boughton-Monchelsea, Kent, who died at Loose, in the same county, on February 7, 1891, has been proved at the Principal Probate Registry, Somerset House, by Mrs. E. E. Brown, the deceased's widow and sole executrix, to whom administration of the estate was granted. The personalty amounted to 10*l.* 19*s.*

The will of the late Mr. Charles Farrer, of Castleford, county York, retired chemist, who died on May 15, 1891, was proved at Wakefield Probate Registry, on June 19, 1891, by Mrs. Farrer, the relict, and Messrs. A. L. Radcliffe and John Jowett, the executors. The gross personalty amounted to 171*l.* 13*s.* 4*d.* The testator, after leaving an immediate legacy of 20*l.* to his son Benjamin, devises all real estate and bequeaths all his personal property to his executors, in trust, directing that all rents and profits shall be paid to his wife for her absolute use for life and upon her death the whole property is to be realised, and the proceeds equally divided between the testator's children.

Letters of administration of the personal estate of the late Mr. John Morell Horsfield, of Rotherham, chemist, who died on April 22, 1891, intestate, have been granted at Wakefield Probate Registry to Mrs. Emily Horsfield, the widow. The gross value of the personalty amounted to 585*l.* 1*s.* 8*d.*

A QUININE FACTORY IN GERMANY.

A REPRESENTATIVE of the *Ceylon Observer* recently paid a visit to Messrs. Böhringer's quinine works near Mannheim, and gives an account of his trip in his journal. We may take it that he was not let into any of the secrets of the business, but he nevertheless contrived to lay hold of one or two interesting bits of information, which we here reproduce:—The grandfather of the present head of the house practised chemistry in Stuttgart, but it was his son who first established a quinine and chemical manufactory there, afterwards locating himself at Mannheim until a large fire destroyed his establishment there, after which the firm of C. F. Böhringer & Söhne opened a new works in Waldhof, on a site facing the Rhine and admirably adapted for the purpose in view. Mr. Böhringer, senior, died last year, leaving his son, now about thirty-five years old, at the head of the very extensive business associated with his firm.

Waldhof is a wayside station chiefly constructed for the service of two or three large factories (of glass as well as chemicals) and the village connected therewith. The country is everywhere flat, though backed by the hill-ranges around Heidelberg, seen in the distance. In walking from the station to the great chemical factory we drew near to the Rhine, here by no means so important a river as it is lower down. We noticed that the soil is extremely poor and shallow, and even where under cultivation there are numerous patches intermingled, apparently useless for crop-bearing and left untouched. The Waldhof establishment has formed a village of its own; for, notwithstanding improved processes by which one worker can now do the work formerly requiring twenty, the firm has some 300 employés in its leading establishment. The first noticeable feature near the works is a huge mass, almost a hill, of dark-brown refuse which is being constantly added to from trucks carried by a wire tramway across the roadway from the works to the top of the long mound. "That we call Ceylon," said Mr. Böhringer, "for most of it belongs to your island, representing in fact the bulky residuum of the cinchona bark after the extraction of the alkaloids." This great mass is the result of about seven years' work. Everything possible had been done to utilise this stuff, but in vain: it does injury rather than good when applied to the soil in its present condition; but Dr. Schäfer anticipates that when it is very much older it can be profitably utilised, pointing in evidence to a layer in another direction which, as it decomposed, got a covering of vegetation over it. I was afterwards told that Mr. Whiffen, of London, has found a good market for some of his chemical refuse—for instance that of nux vomica, from which strychnine had been extracted, as a covering for garden walks, to prevent the growth of weeds or other vegetation.

After a talk with Mr. Böhringer on the producing countries, exports and markets, we were introduced to Dr. Schäfer, the head of the scientific staff, who, in the full vigour of his robust frame, one could see at a glance was a man of keen perception and power. He spoke English well—as did all the other gentlemen we met—and had seen the cinchona-producing world in South America, where, besides superintending or inspecting plantations for a time, he had penetrated to some of the primeval groves of the tree in its native habitat. Dr. Schäfer occupies a most responsible post at the head of the staff in the various departments included in the Waldhof works, and the great variety and extent of the operations may be judged from the fact that there are under him about a dozen qualified chemists (all holding a University degree), and most of whom keep so strictly and continuously to their own laboratories and the chemical works to which they are attached that they never enter one another's. In fact, no one of them knows anything of what the others are doing, and the establishment, as a whole, is a thing unseen and unknown by eleven out of the twelve doctors and perhaps 299 out of 300 employés in the place! The workmen employed are also strictly bound by engagements and conditions. In some departments, a good many young women are employed. The works, however, consisting of a long stretch of strong and high masonry buildings with detached structures for special preparations and the inevitable lofty chimney stalks for the steam-engines, are by no means shut in or walled round. They are, however, secluded enough in situation, with a quiet frontage on the Rhine—which is not much frequented here by passenger boats—and with such poor soil in the neighbourhood that the cultivators are few and far between. The site was chosen and the works commenced here some forty years ago; but within the last ten years they have been greatly changed, improved, and extended. Dr. Schäfer mentioned that in respect of quinine alone there were, some years ago, more people required to turn out one-eighth of the quantity now manufactured than are employed now. We first visited the rolling and grinding mills, where the cinchona bark is reduced to powder; then we were shown a series of chemical processes in enormous vats, at various altitudes, up and down iron stairs, and with the aid of petroleum, &c., and of machinery (some of it hydraulic) extracting and clearing the alkaloids. At one stage Dr. Schäfer pointed out how, by an invention of his own, one man with the aid of machinery was able to do what it required twenty men to carry out before. The clarifying processes, in which charcoal is largely used, and the bleaching of the quinine were especially interesting. There were some centrifugal machines—a recent improvement, I gathered, attended to by women—on which cables of the quinine were spun at the rate of 1,000 revolutions a minute, in connection with the drying and crystallisation of the finished product which were simply delightful in the completeness of their adaptation to the end in view. The Assay-rooms, where two or three of the chemists are from year's end to year's end busy analysing cinchona bark and other raw material, were not the least interesting; and in Dr. Schäfer's office the collection of chemicals, all the product of the works, was quite bewildering.

Medical Gleanings.

SALICYLATES IN PLEURISY.

IT would appear that salicylate of soda is of great service in the treatment of pleurisy. It causes copious diaphorsis, and complete absorption of the pleural effusion.

BE CAUTIOUS WITH HYOSCINE.

FROM recent continental reports it appears that great care should be exercised in the administration of salts of this alkaloid. One milligramme ($\frac{1}{60}$ grain) is the maximum dose that can be given with safety, and this quantity should be arrived at gradually. The drug is quite unsafe in the case of patients with cardiac troubles, as it slows the pulse, lowers the arterial tension, and may produce paralysis of the heart.

COMPOUND CASCARA PILL.

THE following is Dr. W. Murrell's formula:—

	Grains
Extracti cascaræ sagradæ	2
Aloin	$\frac{1}{5}$
Strychninæ	$\frac{1}{60}$
Extracti belladonnæ	$\frac{1}{4}$
Ipecacuanhæ	$\frac{1}{12}$

This is made into a pill—coated or varnished by preference—and one is taken in the morning before breakfast, or three times a day after meals, according to the necessities of the patient.

PIPERAZINE AND URINARY CALCULI.

INTERESTING experiments have been made recently by Dr. J. F. Holtz, M.D., director of Schering's Research Laboratory, on the action of piperazine upon artificial urinary calculi consisting of pure uric acid, or of that compound with calcium phosphate, or of ammonium urate, &c. The design was to ascertain whether piperazine had any solvent effect upon these. The result of the experiment showed that all the forms of concretions alluded to dissolved freely and perfectly within a comparatively short time in a 1-per cent. piperazine solution. In a few cases nothing remained but a light honeycombed skeleton, which consisted of the hardened cementing mucus. It was particularly noticed that the edges of the calculi, sometimes very sharp, dissolved away rapidly in the piperazine solution.

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FOR disposal, the Business of the late G. B. Howorths, Irthlingboro', Northampton; returns between £7 and £8 per week; handsome fittings; well-assorted stock; no other Druggist; rent £16 10s. per annum. Address, Howorth & Parkin, Doncaster.

HAMPSHIRE.—Close to Bournemouth; owing to death of late proprietor; a small General Dispensing and Retail Business; comfortable house; good garden; about £200 required. Apply to Mr. A. Jolliffe, Arcade Chambers, Bournemouth.

LONDON Suburb, S.W.—Good-class Retail and Dispensing; returns £261 yearly; increasing; good house; well fitted shop and good stock. Full particulars, with card of introduction, on application at Messrs. Orridge & Co.'s Offices, 32 Ludgate Hill, London, E.C.

TO be disposed of, a first-class Retail and Dispensing Business, in the West-end; capitally fitted, stock good; held on lease for 7 years from Christmas next; satisfactory reasons given for sale. Apply to G. C., c/o Messrs. Davy, Yates & Co., 64 Park Street, Southwark.

FOR disposal.—Retiring; Retail; established 1870; Chemist and Druggist's Business; main road, Bolton, Lancashire; thick population; post-office might possibly be added to it; corner shop; plate glass. Address, George Shellcross, Gosse Bank, 75 Chorley Old Road, Bolton, Lancashire.

CHESHIRE.—An old-established, high-class Retail and Dispensing Business; returns a little over £1,000; stock and fixtures at a valuation; large house at moderate rent; satisfactory reasons for disposal. Address, A.B., c/o Messrs. Woolley, Sons & Co., 69 Market Street, Manchester.

LONDON Suburb, S.E.—Retail, Dispensing, and Prescribing; handsome shop, fully stocked; good house and garden; capital position in increasing neighbourhood; returns £300; selling for domestic reasons; price £225. W. J. B., Messrs. Hodgkinson, 81 Bishopsgate Street Without, E.C.

WEST OF ENGLAND.—Old-established Chemist's and Druggist's Business and Aërated-water Manufactory for sale; proprietor retiring from business; net profits about £500 per annum; incoming £2,000. Apply to Thos. J. Deuman, Chartered Accountant, Bank Chambers, Yeovil.

LANCASHIRE.—Old-established mixed Chemist and Druggist's Business in large manufacturing district within 7 miles from Manchester; returns £500, and increasing; good profits; satisfactory reason for disposal; no agents. Apply, B., Messrs. Woolley, Sons & Co., 69 Market Street, Manchester

FOR sale, a genuine going concern, situated in a populous neighbourhood in Leeds; turnover under management £500; rental £32; price £400; established 40 years; well stocked and fitted; returns could be doubled under principal; satisfactory reasons for disposal. Address, 10 Spring Grove Terrace, Burley Fields, Leeds.

LONDON, N.—Increasing Dispensing, Prescribing, and cash Retail in busy district; price arranged on average of 10 years; about £750 required, part can remain; £40 can be let off; satisfactory reasons for disposal; applications without reference not replied to. Apply, "Rhei," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate disposal, in consequence of the death of the Proprietor, a good Chemist's and Druggist's Business, with which is connected the Postal and Telegraph Office, in Grimsbury, in the borough of Banbury, Oxon; a first-class opening for an energetic young man with limited capital. Apply to Mr. Arthur Fairfax, Solicitor, Banbury.

GUERNSEY, Channel Islands.—Old-established Retail, Dispensing, and Prescribing Business in a thickly-populated neighbourhood; returns about £400; convenient house, good stores; moderate rental; price to an immediate purchaser £250; ill-health only cause of disposal; full particulars on application. J., 10 Vowler Street, Walworth, London. S.E.

Messrs. CROCKER & CO.
Trade Valuers, Transfer Agents, and Accountants,
15 WALBROOK, E.C.

SOMERSET.—Old-established Retail, Dispensing, and Prescribing trade; returns £800; price £600; handsome pharmacy and good house.

LANCASHIRE. Good-class Retail and Dispensing; returns £520; price, valuation of stock and fixtures

WEST OF ENGLAND (fashionable health resort). Old-established Retail and Dispensing; returns £1,200; price £1,200.

SURREY.—Light Retail and Dispensing; returns £800; price £650; good house; handsome Pharmacy; agency pays rent.

NORFOLK.—Good-class Family and Dispensing; returns £850; price £700; long lease at a low rent; good house.

HOME COUNTY.—Light Retail and Dispensing; returns £400; low rent; price £320; large and convenient house, with nice garden.

SUSSEX.—Old-established Retail and Dispensing, with good sale of own specialities; returns £600; price £450; good house and garden.

KENT.—Family and Dispensing trade, with Post-Office; returns over £800; price £600; large house and garden.

NO CHARGE TO PURCHASERS.
VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

£450.—**S.W. OF ENGLAND**—Light Retail Dispensing and Prescribing Business, in county town; returns £650; with full prices; large shop, well-fitted and stocked; 10 good rooms in house; large garden; same hands 17 years; younger man could increase turnover. "Kali," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

OLDHAM.—An old-established Chemist's Business, in a main thoroughfare, doing over £400 a year, which might easily be increased to £600 or £800 by a registered man; valuation only; good house, rent £45; profits from post-office alone £70 a year; satisfactory reasons. Apply to Thomas Tomlinson & Son, 9 New Cannon Street, Manchester.

MANCHESTER (Suburb).—Light Retail and Dispensing Business, returning £500; net profit £200; rent £30; convenient house; 500 new prescriptions yearly; taking larger business cause of sale; same hands 7 years; price £330, or offer; any investigation allowed to genuine applicants. J. G., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LIGHT Retail, Dispensing, and Prescribing Business; main road good-class suburb; double-fronted corner shop, mahogany fittings, well stocked; net profit last year £200; no near opposition; satisfactory reasons for disposal; every investigation; price £700; house eight rooms, private entrance, and garden. "Genuine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHESTERFIELD.—For no fault; really worth attention; a Chemist's Business, doing £1,400 a year at good profits, for valuation, about £650; in the most conspicuous position in the town. The only reason for disposal is having bought a larger business, upon which the owner has to enter in December. Apply to Thomas Tomlinson & Son, 9 New Cannon Street, Manchester.

FOR sale by private treaty, two old-established prosperous Drug and Drysaltery Businesses, working admirably in conjunction. Lot 1. Total ingoing, about £350; returns 1890, £743, all retail; rent £20. Lot 2. Total ingoing, £550; returns 1890, £1,308, all retail; rent £40. Both are in splendid positions, and would be sold separately; offers considered. Apply, Goodeve & Evans, Cannon Street, Birmingham.

THOMAS TOMLINSON & SON, Chemists' Valuers and Transfer Agents, 9 New Cannon Street, Manchester, have Businesses for disposal at St. Helen's, three at Bradford, Liverpool, Nottingham, Wales, Manchester (outskirt), Burnley, Dewsbury, Dewsbury (suburb), Salford, Rochdale, Preston, Manchester, Longton, Sheffield, Ancoats, Manchester, Mansfield, Ardwick, Docking, Oldham, Hollinwood, Hanley, Bolton (outskirt), Chesterfield (a splendid opportunity), Carlinghow, and various others. Parties desiring Businesses should give district and class of trade required. No charges to inquirers or purchasers.

THIRTY miles from London; good ready-money business; returns last year £780; increasing; town between 8,000 and 9,000 inhabitants, populaton rapidly increasing, villages round making a district of over 16,000 inhabitants; profits much above average, as business consists largely of proprietaries; shop modern, and well fitted with mahogany, plate glass, York glass recess bottles, &c.; best position in the town; every investigation courted; well stocked, and all in good condition; price £750, or offer; no agents; references to wholesale houses from intending purchaser; rent of house £44; sole cause of sale, entering into partnership with late governor in much larger concern. Address, "Nonconformist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

WANTED, a thoroughly sound Drug Business, returning about £2,500, and capable of increase; a business partly Wholesale would be entertained. Particulars, in confidence, to "Drugs," 16 Braemar Road, Tottenham.

WANTED, at Christmas, or soon after, a small Chemist's Business; a branch shop, or nucleus in new neighbourhood, might suit; please state returns, rent, rates, length of lease, &c., with lowest cash price, to "Chemist," c/o Mr. Henry Ebbage, Framlingham, Suffolk.

WANTED, a good Retail and Dispensing Business, returning between £1,000 and £2,000 per year; main thoroughfare; City, W., or N.W.; full investigation required; no agents; cash ready; good partnership would be entertained. Apply, in strictest confidence, to A. B., 87 Talbot Road, Bayswater, W.

FOR SALE.

SHOP FITTINGS.—For disposal, the excellent fittings of a Chemist's shop, stock, &c.; the premises to let if wanted; capital chance for a beginner, or for opening Branch. Apply, by letter only, to "Bolton," 10 Ethelden Road, W.

APPRENTICESHIPS.

WANTED, a well-educated youth as Apprentice in a Dispensing and Mixed Retail business; every facility for learning every branch; moderate premium. Apply to W. Paine, The Pharmacy, Westbury-on-Trym, Bristol.

THE Guardians of an intelligent youth, from the Modern School, Bedford, who has already passed the Junior Cambridge Local Examination, are anxious to apprentice him to a good firm of Retail Chemists. Particulars, C. B Johnson, Westonry Lodge, Oxford.

SITUATIONS OPEN.

JUNIOR Assistant or Improver; time for study, Apply, giving full particulars, salary required, &c., to W. Fowlds, Chemist, Keighley.

JUNIOR Assistant; unqualified; accustomed to General Retail and Dispensing; abstainer. Apply, with references and full particulars, Wilson & Botwood, Dartford, Kent.

AT once, qualified Assistant, to manage small branch; married, and Extractor preferred; give last two references, stating salary (outdoors). Cook, Chemist, Nottingham.

WANTED, an Assistant, outdoors, unmarried, for a Mixed country business; good references necessary. Apply, with usual particulars, to Saunders, Chemist, Haverfordwest.

QUALIFIED Assistant, about 25, for appointment in the East; liberal remuneration for first-class man. By letter only, to Dakin Brothers, 87A Leadenhall Street, London, E.C.

WANTED, after Christmas, an Assistant (outdoors) for good-class business in pleasant watering place. State usual particulars, to Exors. of late H. W. Mackeroth, Grange-over-Sands.

JOHN BARKER & CO., Kensington, are in want of a good Junior Assistant, for Retail Counter; indoors; close at 2 o'clock on Saturdays. Apply to John Barker & Co., Kensington.

ASSISTANT, about 22, active and gentlemanly, wanted by 21st December; well up in Dispensing. Apply, stating age, height, references, salary (indoors), to J. Bain, 122 Robson Street, Liverpool.

REQUIRED, a Chemist acquainted with the analysis of Explosives; salary £150 to £200 per annum. Apply, by letter, to "B.," c/o Messrs. Waterlow & Sons, 49 Parliament Street, London, S.W.

SOUTH AFRICA.—Assistant with Minor qualification required; aged 22 to 24; three years' engagement; passage paid. Apply, stating full particulars, to J. M. & Co., Sussex House, 52 Leadenhall Street, E.C.

JUNIOR Assistant; about 21; in good-class General business; time will be allowed for study, if desired. Apply, with usual particulars, salary required, &c., to T. Blackshaw, Pharmaceutical Chemist, Burslem.

A TRUSTWORTHY Junior required; reliable Dispenser and good Counterman; salary and commission. State age, height, terms, &c., to "Esculap," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGING Assistant, qualified, indoors, for light suburban business; must possess good references. State age, height, experience, salary required, &c., Matthews & Son, Chemists, opposite Town Hall, Leyton, N.E.

WANTED, an Assistant (Junior), indoors; one desiring a permanency preferred; aged about 24. State height, salary required, experience, and when disengaged, with references, to Dennis & Son, Chemists, Louth

REQUIRED, the third week in December, a qualified Assistant of good experience; aged about 26. Apply, giving particulars as to salary and references, with photo (which will be returned), to Brookes, Chemist, Llandudno.

QUALIFIED Assistant required at once, of good address and business habits; must be accustomed to brisk trade, and not under 5 ft. 8 in. Particulars and photo, or personally, to W. V. Wright, Broadway, Hammersmith.

AFTER Christmas.—An Assistant, capable of taking first place in a good-class Retail and Prescribing Business, where two others are kept; qualification not necessary. Apply, J. Griffith Isaac, Chemist, Neath, South Wales.

ASSISTANT wanted; aged 25 to 30; competent; used to quick or store trade preferred; indoors; hours short; high-class Retail and Dispensing. Apply, with full particulars, to W. D. Gibb, Chemist, 31 Piazza, Winchester.

WANTED, early in January, Junior Assistant; qualified; must have good reference as a neat, quick, and accurate Dispenser. Apply, stating age, height, and experience, enclosing photo, if convenient, to Hitchcock, 108 High Street, Oxford.

WANTED, at once, a Junior (not qualified), aged about 21, accustomed to Dispensing. Apply, stating age, experience, salary, and reference, together with photo (to be returned), to A. G. Kenderdine, Oakfield Road Pharmacy, Clifton, Bristol.

JUNIOR Assistant, 18 to 20. Apply, with full particulars, to J. H. Morris, 152 Milton Road, Gravesend.

AS Assistant; aged about 23; with Minor qualification; must be a good Counterman, and well up in Dispensing and Prescribing; outdoors. Apply, by letter in first instance, stating salary required, height, age, &c, to A. J. Holmes, Pharmaceutical Chemist, Upton Park, E

DRUGGISTS' SUNDRIES. Wanted, by a Country House, a smart man as Warehouseman, thoroughly well up in Druggists' Sundries and Toilet articles; must be experienced, quick, correct, and have a first-class character. Apply, stating salary required, to "Sundries," c/o Clarke, Son & Platt, 85 Gracechurch Street, E.C.

BY end of December, a competent Assistant, not under 23; an accurate Dispenser, of good address and obliging business habits. Apply, stating age, height, and salary required, with references, enclosing carte (to be returned), to W. J. Barnes, Chemist, Dover.

WANTED, at Christmas, an Improver or Junior Assistant in a Mixed General country business; no heavy trade; time for study allowed. Apply, with particulars (photo enclosed, to be returned), to Youngman, Pharmaceutical Chemist, Bury St. Edmunds.

GENEVA, SWITZERLAND.—Wanted, First Assistant, of good address and appearance, speaking French fluently; must be used to high-class international Dispensing business. Offers, with photo, to the Anglo-American Dispensary, 13 Rue des Allemands, Geneva.

INVOICE Clerk.—T. Howard Lloyd & Co., Wholesale Druggists, Leicester, have a vacancy for an Invoice Clerk; aged about 18 or 20; must have had experience and be of good character; superior handwriting indispensable. Apply by letter, with specimen invoice.

AS Junior, about 20, in a good-class country Mixed business; must be able to Dispense; only one kept; no Sunday duty; hours 7.30 to 8, Saturdays 9; send age, height, reference, salary asked, and enclose carte, if convenient. C. F. Smart, Chemist and Stationer, Littlehampton.

WHOLESALE.—Wanted, an Invoice Clerk, one who has had experience in keeping Bought Ledger preferred; no one without previous experience need apply; must have good references. Apply by letter, with full particulars, to U. C. J., 2 Lawrie Park Road, Sydenham.

MR. J. C. CHAS. PAYNE, M.P.S.I., has a vacancy for an Outdoor Assistant, holding Irish or English Pharmaceutical qualification; must be a quick and experienced Dispenser, writing a good hand, and about 23 years of age. Apply, with reference and salary expected, to 18 Shaftesbury Square, Belfast.

QUALIFIED Assistant wanted for quick cash trade; one with similar experience preferred; salary £2 a week, and other encouragement given. Apply, stating full particulars of experience, age, height, when disengaged, &c., to "Globe," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMMEDIATELY after Christmas; an Assistant for Mixed Country trade, to solicit orders two days a week with horse and trap; a fair knowledge of Retail required; hours 8 to 7, Saturdays 10. State age, height, experience, salary expected, enclosing photo, to Boyden, Chemist, Wine and Spirit Merchant, Pocklington.

WANTED, a qualified Assistant to take charge of good Agricultural business; applications minus references and full particulars will not be replied to; transfer might be arranged if applicant could find one-third of capital, or share in profits without capital to suitable man. Apply, A., Evans, Sons & Co., Liverpool.

TRAVELLER.—Wanted, an energetic man, to push the sale of Soluble Essences in the Midlands and North of England; one accustomed to calling upon Mineral-water Manufacturers preferred. Address, enclosing carte, stating age, reference, and salary required, William Hay, Manufacturing Chemist, Hull.

AN Assistant (indoors); about 23 or 24 years of age; of good appearance and address, accustomed to a good-class country trade; must be a quick and accurate dispenser and good counter-man; hours of business short. Apply, enclosing carte-de-visite, if convenient, to John Meredith, Chemist and Wine Merchant, Brecon.

IMPROVER or Junior Assistant wanted, immediately, in a good-class Dispensing and Prescribing business, with photographic, optical, and scientific sundries; state full particulars, with height, age, if accustomed, to serve, experience, and salary required; indoors; photos returned if sent. H. P. Chandler, 58 High Street, Ramsgate.

SOUTH LONDON.—Wanted, a qualified outdoor Assistant; industrious and obliging; character must bear strict investigation; state age, height, salary required, when disengaged, qualification, experience, and all necessary particulars; the sight of a photo would be helpful. J. W., c/o Messrs. J. C. & J. Field, Upper Marsh, Lambeth, S.E.

WANTED, at once, an Assistant, about 22 (outdoors), for a brisk Retail and Prescribing business; hours from 8.30 A.M. to 10 P.M., 11 on Saturdays; Sunday, two evenings out of three, from 6 to 9 P.M., one hour each for dinner and tea. Apply, stating particulars as to age, experience, and salary required, also send photo, to W. R. Cartwright, 69 Leytonstone Road, Stratford, E.

WANTED, Senior Assistant or Manager (married or single), where Junior is kept, in good middle-class business, in High Holborn; must be of good address; experienced, steady, and energetic, with unimpeachable references; apartments found, but not board. Apply (if by letter with full particulars and salary required), to W. W., c/o Messrs. Willows, Francis & Butler, 101 High Holborn, London.

WANTED, by Christmas, qualified Assistant, principally to manage small branch in middle and working-class neighbourhood, provincial town; thoroughly steady, accustomed to general trade, energetic, industrious; can reside in house; abstainer and without family preferred; state age, salary (photo), full particulars. "Fides," care of Hearons, 38 Southwark Street, London, S.E.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

Please note that advertisements under this heading must be received at the office not later than 5 p.m. on Thursdays.

OUTDOOR or Manager; qualified; permanency. "Moto," 1 Leather Lane, London.

ASSISTANT: qualified; aged 22. Arthur Bugden, 8 Fulham Place, Paddington Green.

MANAGER or Outdoors; qualified and registered. Davies, 100 Brixton Hill, London.

AS Manager or Senior; aged 30; married; Minor. M., 32 Lichfield Street, Hanley, Staffs.

LOCUM-TENENS; qualified; first-class references. "Locum," Trinity Square, Llandudno.

JUNIOR (20); 4 years' experience; London preferred. Harries, 23 Saint Clement's, Oxford.

LOCUM-TENENS or Manager (40); qualified. Baker, 271 High Street, Camden Town, N.W.

R. CLEAVE, Pontefract, requires situation; nearly 20; disengaged December 31; good reference.

MANAGER or Traveller; married; 33; qualified; good references. "Pills," 78 Sing Hill, Sheffield.

JUNIOR or Dispenser; qualified; 6 years' experience; good references. Owen, 36 Lumley Road, Skegness.

PART-TIME (indoors); Manchester or Liverpool; 21. F. G. R., c/o Mr. Norfolk, Chemist, Ilkley.

ASSISTANT or Dispenser; disengaged; good references. "Statim," 13 Russell Place, Blackheath, S.E.

AS Assistant; accustomed to Retail and Dispensing; aged 25. "Radix," King's-Bromley, Lichfield.

ASSISTANT (22); tall; abstainer; disengaged; provinces. H., 1 Spring Street, Stockton, Durham.

ASSISTANT; outdoor; 26; permanency; good experience. "Statim," 61 Northgate Street, Chester.

LOCUM (27); varied experience; qualified; good references. "Minor," 36 Grand Parade, Brighton.

TEMPORARY; qualified; 3 months or less; disengaged. 43 Lordswood Road, Harborne, Birmingham.

EVENING Employment; part board; lodging (London, Jan. 10). "Minor," 8 Market Street, Falmouth.

PART-TIME Assistant or Dispenser; experienced; good references. "Chemicus," 14 Winforton Street, Greenwich.

TEMPORARY or Permanent; aged 24; disengaged; qualified. "Extractor," 2 Horton Street, Lewisham, S.E.

IMMEDIATELY, as Surgeon's Dispenser or Warehouseman. H. M., 4 Stanmore Place, Arlington Road, Camden Town.

ASSISTANT (Wholesale preferred); aged 24; qualified; disengaged shortly. F., 141 Falsgrave Road, Scarborough.

RE-ENGAGEMENT as Traveller; connection in Midlands. "Statim," Chemist, Clarendon Park, Leicester.

ASSISTANT; 7½ years' experience (three London); good references; North preferred. Thwaites, 32 Gilesgate, Durham.

JUNIOR Assistant or Dispenser; London; part-time; small salary; out-doors preferred. H. F., c/o Jones, 311 Commercial Road, E.

JUNIOR (21); tall; 4½ years' experience; disengaged January 1; London preferred; outdoors. "Gentian," 12 Norfolk Buildings, Bath.

MANAGER, Traveller, or Outdoor Assistant; 4 years in present situation; aged 34; married. "Kent," 70 Beckenham Road, Beckenham.

WANTED, by a young man, situation in Warehouse, or any capacity; has worked 3 years at a chemists. H. D., 89 Studley Road, Forest Gate.

JANUARY. As Branch Manager; married; experienced in Dispensing, Prescribing, and Tooth-extracting. "A.," 2 Cross Street, Swinton, Lancs.

ASSISTANT (21); accustomed to Dispensing, Prescribing, and Extracting; tall; highest references. J. R. H., 65 St. John's Road, Bootle, Liverpool.

AS Traveller; gentleman (23), tall and of good address; connection; mineral water trade, confectioners, and others. "Chemist," 65 Monmouth Street, Sheffield.

ASSISTANT; unqualified; dl engaged after the 12th; middle-aged; height 6 feet; direct reference; steady habits. P., Mr. Armitage, Chemist, Thorne, Yorkshire.

ASSISTANT; 34; qualified; town; moderate salary. "Minor," 8 Castle Street East, W.

PART-TIME or Surgeon's Dispenser, in London; outdoors. Stanley, 21 Wolseley Road, Forest Gate.

ASSISTANT; experienced; disengaged. "Extractor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 25; first-class London experience; qualified; disengaged; London preferred. "Minor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Senior; aged 31; qualified; single; abstainer; good experience; height 5 ft. 7 in.; outdoors; North preferred. "Instanter," Tho Nelems, Chingford.

LOCUM and Temporary Manager (country preferred) during absence or otherwise; qualified, competent, steady, and reliable; highest references; disengaged. "Extractor," 23 Florence Road, London, S.E.

J. MASON, 6 Walton Well Road, Oxford (registered), temporary Manager and Assistant, is disengaged for a few weeks; a small business in town or country preferred; would pay travelling expenses one way; good references.

YOUTH (19) wants situation in Drug Stores; had no experience; would give few months' services in exchange for board and lodging; would make himself useful. Apply "Christopher," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DRUGS and Chemicals.—Gentleman with long experience and large connection wishes situation either as Traveller or Manager for a Wholesale Export firm; knows English, German, French, Spanish, and Italian. Address, G. E. R., Messrs. Deacon's, Leadenhall Street, London.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading which can be obtained on application.

WANTED to Purchase, for cash, a Patent Medicine, or Proprietary Article or Articles, thoroughly established, and showing a reliable nett income at present time; none entertained unless fulfilling the above conditions. Address "Capital," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO CHEMISTS AND DRUGGISTS.—Agents wanted in every town, where not represented, for Learner's Patent Foot-rot Composition; article much advertised, and a genuine one; £1,000 offered for Patent in 1890; any quantity of printed matter with Agent's name attached. Apply to the Proprietor, Alfred J. Learner, Crownthorpe, Wymondham, Norfolk.

LIQUORICE.

THE oldest and most important Liquorice Manufactory in North and Middle Europe wants Agents, only with best references, in all the principal places in England, for the sale of its superior products. Post-paid offers under K. E., 4420, c/o G. L. Daube & Co., Cologne.

PRELIMINARY AND MINOR.

STUDENTS! If you wish to prepare for Examination easily and thoroughly, without leaving business or expending time and money on "correspondence systems" (?), write to Mr. Filtness, Chemist, Crowboro' Cross, Tunbridge Wells, for "How to Prepare for Exam.," gratis and post free. Success guaranteed. No Fee.

PRELIMINARY AND MINOR.

TULLY'S method of preparation is without equal; send for particulars Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Student's Herbarium, 100 specimens, 7s. 6d., post free. Mr. J. Tully (Hill's Prizeman), Chemist, Hastings.

LONDON AND LANCASHIRE FIRE INSURANCE COMPANY.

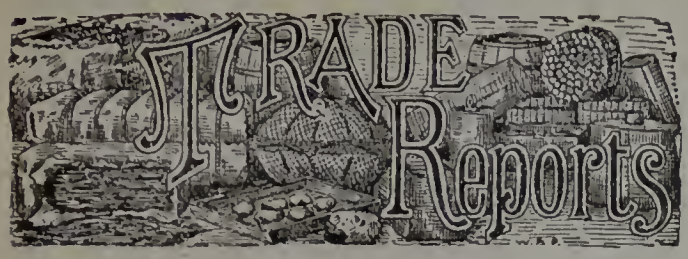
Head Offices { 45 DALE STREET, LIVERPOOL. 74 KING WILLIAM STREET, LONDON.

Annual Income, £702,000.
Funds in Hand, £807,000.

Premiums Moderate. Losses settled with promptitude and liberality.

Applications for Agencies specially invited from Chemists and Druggists in both Town and Country Districts.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—December 5, 1891.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

The first pages of this report deal with the markets up to Wednesday evening. Our reports of Thursday's sales and the latest information are appended under a distinctive heading.

THE "COMMERCIAL BAROMETER."—The readings of the "Commercial Barometer" for October, prepared by the Imperial Federation League, and based upon the Board of Trade Returns, disclose the following results:—

Imports.—Both tonnage and value show a small decrease upon October, 1890, and a considerable decrease upon October, 1889. Comparing 1891 with 1890, this is most conspicuous in raw materials for textile manufactures (22·5 per cent.), metals (13 per cent.), and living animals for food (10 per cent.). It has been somewhat counter-balanced by an increase in articles of food (4·6 per cent.) and manufactured articles (8·1 per cent.). The increase under the head of manufactured articles extends over almost every class of goods. The average price of the total imports remains the same as last year, but wheat and wheat-flour have risen 13 per cent. There has been a continuous decrease in the value of the imports of living animals for food since January last, and of tobacco and chemicals and dye-stuffs since May last, and a continuous increase of articles of food since the same date.

Exports.—There has been, for the first time since May, a slight decrease in the tonnage, but in value there has been a heavy decrease of 8·9 per cent. (of 10·6 per cent. on British merchandise, and 2·5 per cent. on foreign and colonial). This decrease is probably to a great extent the consequence of a fall in prices, which averaged less by 7·3 per cent. than in October of last year. It is spread over every group except apparel. It is heaviest in metals (25·6 per cent.), raw materials, chiefly coal (18·8 per cent.), and yarns and textile fabrics (6·3 per cent.). Of the two staples, cotton yarn has decreased 5·5 per cent. in quantity and 8·5 per cent. in price; cotton piece-goods, 1·9 per cent. in quantity and 3·7 per cent. in price; iron and steel manufactures, 18·9 per cent. in quantity and 5·5 per cent. in price. In the last class the only exception to the general fall has been in unwrought steel, which has increased 12·3 per cent. in quantity, but has fallen 1·5 per cent. in price.

DRAWBACK ON PERFUMES.—A meeting of the chemical section of the London Chamber of Commerce was held on Monday. The press were refused admittance, and those present invited to undertake not to divulge what passed. It is understood that the subject under consideration was a proposal by the Somerset House authorities to withdraw the facilities now extended to manufacturers of perfumes to carry on their manufacture in bond with duty-free spirit, and to compensate them by allowing them a drawback upon the alcohol in perfumery exported, in the same way as the drawback allowed on medicinal tinctures. A committee was ultimately appointed to consider the question, but no definite decision was arrived at. Most of the perfumers present, we understand, expressed themselves as well satisfied with the proposed innovation.

LONDON BARK AUCTIONS FOR 1892.—At Tuesday's bark sales it was decided to skip the cinchona auctions, which, in the ordinary course, would have been held on December 29. There will, therefore, be no such sales in London between December 15 and January 12. Messrs. Lewis & Peat also issued notices giving the dates of bark sales in London and Amsterdam during 1892. The following are the dates for the London auctions:—January 12, 26; February 9, 23; March 8, 22; April 5, —; May 3, 17, 31; June 14, 28; July 12, 26; August 9, 23; September 6, 20; October 4, 18; November 1, 15, 29; and December 13. The Amsterdam sales will be found under "Dutch Markets."

THE ZANZIBAR CLOVE TRADE.—A proclamation, signed by the Sultan of Zanzibar, and countersigned by Mr. Gerald Portal, the British Resident, was issued on November 27, declaring that a duty will be levied on all the organs of florescence of the clove-tree, whether clove stems, buds, or seeds, after December 2 next. The object of the measure, Reuter thinks, is to increase the value of the clove stems, upon which no duty has hitherto been paid. We should rather incline to the belief that the measure is aimed at the discouragement of the exportation of parts of the clove other than the buds.

ACID (CITRIC).—The market still remains unmoved at 1*s.* 4½*d.* to 1*s.* 4⅓*d.* per lb. The quotations for lemon-juice from Sicily vary widely; in fact, they run from 18*l.* to 21*l.*, f.o.b., and the situation is likely to remain somewhat unaltered for a short period still. The exports of citric acid from the port of London have been:—

	1891	1890	1889
	Cwt.	Cwt.	Cwt.
November	371	352	469
January–November	,633	5,868	5,550

The imports of lemon-juice from Sicily were:—

	1891	1890	1889
	Pipes.	Pipes.	Pipes.
November	60	190	174
January–November	1,751	4,018	,261

ALCOHOL.—German potato-spirit has advanced again since our last report. The importers now quote best brands at 14.6m., c.i.f., per proof gallon, naked, for prompt to February; and at 14.4m. same terms for February–May. The American grain spirit of which we made mention recently is offered at 14½*d.* per proof gallon, c.i.f., packing included.

ANNATTO.—The market remains dull for all varieties. Medium to good bright Pará *Roll* annatto is held at from 6*d.* to 1*s.* per lb.

ANTIMONY.—The market for crude Japanese is firm, but the demand has fallen off somewhat in consequence of the too rapid rise. On the spot 28*s.* is the nearest quotation; while regulus antimony is offering at 55*s.* per cwt., with buyers at 55*s.* per cwt. Antimonial preparations have been advanced in price recently.

BALSAM (COPAIBA).—There has been a somewhat better inquiry for copaiba balsam in Liverpool lately, and small sales of good bright Maranham are reported at 2*s.* 1*d* per lb.

CAMPHOR (CRUDE).—The market is steady, but quiet, on the spot, raw Japan camphor being quoted at 130*s.* to 135*s.* per cwt., while *China* is nominal at 130*s.* per cwt. From Japan cables quote higher rates, and the lowest price for shipment, we understand, is 135*s.* per cwt., c.i.f. terms.

CINCHONA.—Tuesday's bark auctions were of fair size as regards the number of packages offered; but the total weight of bark was not considerable, many of the packages being below average weight. The catalogues comprised:—

	Packages		Packages	
Ceylon	825	of which	731	were sold
East Indian	235	"	228	"
Java	213	"	238	"
South American	353	"	246	"
African	169	"	169	"
	1,871		1,612	

Holders seemed rather anxious to sell, and there was no very lively competition among the buyers, two or three agents only participating seriously. The average quantity of the barks was fairly good, and the samples shown comprised several nice lots of Succirubras and a fair proportion of good grey bark. Yellow barks of eastern growth were scarce, but South American Calisayas were well represented. A parcel of 472 packages Neilgherry bark, which would have added greatly to the interest of the auctions, was withdrawn at the last moment. The result of the auctions was hardly satisfactory, and prices must be pronounced slightly easier, the average unit being barely $1\frac{1}{16}$*d.* per lb. The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Mannheim and Amsterdam works	141,637
Messrs. Howards & Sons	13,071
Agents for the Italian and American works..	37,366
" French works	31,505
" Auerbach works	21,145
" Frankfort o/M. and Stuttgart works ..	10,670
" Brunswick works	7,660
Sundry druggists	46,810
Total quantity of bark sold	309,864
Bought in or withdrawn	60,270
Total quantity of bark offered	370,134

It should be well understood that the mere weight of bark purchased affords no guide whatever to the quinine yield represented by it; firms who buy a small quantity of bark by weight frequently take the richest lots, and *vice versâ*. The following prices are shown by an analysis of the catalogues to have been paid for sound bark:—

CEYLON CINCHONA.—*Original.*—Red varieties: Ordinary woody to good quilly chips, branch and stem chips, $1\frac{1}{2}$*d.* to $2\frac{1}{2}$*d.*; a few lots, 3*d.*; poor to good bright spoke-shavings, $1\frac{1}{2}$*d.* to 3*d.*; good druggists' quill, $6\frac{1}{2}$*d.*; dusty root, $1\frac{3}{4}$*d.* to 2*d.* per lb. Yellow varieties: Common to fair quilly branch chips, $1\frac{1}{2}$*d.* to 4*d.*; fair stem chips, $5\frac{1}{4}$*d.* to $5\frac{1}{2}$*d.* per lb. Grey varieties: Ordinary to quilly stem and branch chips, 2*d.* to $8\frac{1}{2}$*d.*; fair shavings, 3*d.* per lb.; Hybrid chips, 2*d.* to $2\frac{3}{4}$*d.* per lb. *Renewed*—red varieties: Common woody to good bright quilly stem and branch chips, 2*d.* to 4*d.*; shavings, good to fine, $2\frac{1}{4}$*d.* to 5*d.* per lb. Grey varieties: Fair to good bright branch and stem chips, 3*d.* to $5\frac{1}{2}$*d.*; good to fine bright spoke shavings, $4\frac{1}{8}$*d.* to $5\frac{1}{2}$*d.* per lb.

EAST INDIAN CINCHONA.—*Original.*—Poor woody red stem chips, $1\frac{3}{4}$*d.*: good spoke shavings, 3*d.*; dusty root, $2\frac{1}{4}$*d.* per lb. Grey fair quilly chips (branch of stem), $1\frac{3}{4}$*d.* to 3*d.* per lb. *Renewed* fine bright red shavings, $4\frac{1}{2}$*d.*; stem chips, $2\frac{1}{2}$*d.* per lb. Grey fair to good quilly chips, $4\frac{1}{4}$*d.* to $5\frac{1}{2}$*d.*; ordinary stem chips, 3*d.* per lb.

JAVA CINCHONA.—A large quantity found ready buyers at $7\frac{3}{4}$*d.* to 8*d.* for fine ledger chips (one lot testing 7·92 per cent.), 5*d.* to $5\frac{1}{2}$*d.* for ditto root and chips; original chips, $2\frac{3}{4}$*d.* to $3\frac{1}{2}$*d.* per lb: good root, 7*d.* per lb.

SOUTH AMERICAN CINCHONA.—Good to fine bright silvery stout Bolivian *Calisaya* quills (cultivated), 7*d.* to $9\frac{1}{2}$*d.*; broken and thinner ditto, $5\frac{1}{4}$*d.* to $6\frac{3}{4}$*d.* per lb.

WEST AFRICAN BARK.—Of a parcel of 169 bales of a Succirubra character, just imported from the island of St. Thomé, only 20 bales were in sound condition, the remainder being all "country damaged." The whole of the parcel weighed 19,278 lbs., and it sold at 3*d.* to 4*d.* per lb. for fair split to long silvery druggists' quills, and $2\frac{1}{2}$*d.* to 3*d.* per lb. for fair bright quilly chips.

The following figures represent the exports of cinchona from Java during the first quarter (July 1 to September 30) of the last five seasons:—

—	1891	1890	1889	1888	1887
	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.
Private plantations	2,515,474	1,595,813	987,641	916,363	854,394
Government plantations	182,724	64,208	182,647	148,749	170,295
Total ..	2,698,198	1,660,021	1,170,288	1,065,112	1,034,689

The exports in the single month of September of this year were 779,986 lbs. The exports of the cinchona from Ceylon in the periods between January 1 and November 9 have been: in 1891, 4,727,966 lbs.; 1890, 7,559,023 lbs.; 1889, 7,987,186 lbs.; 1888, 11,240,745 lbs.

CINNAMON.—The last periodical auctions of the year were held on Monday, when 3,070 bales Ceylon cinnamon were offered, including an unusually large proportion of good and fine qualities. The demand was a fairly good one, over four-fifths of the supply finding buyers at steady prices for ordinary and medium grades, while good and fine varieties declined in value from 1*d.* to 2*d.* per lb., as compared with the previous auctions. The following prices were paid:—Fine to superior firsts, 9*d.* to 1*s.* 3*d.*; common to good ditto, $6\frac{1}{2}$*d.* to $8\frac{1}{2}$*d.* per lb.; seconds, ordinary to superior, $6\frac{1}{4}$*d.* to 1*s.* per lb.; thirds, ordinary to superior, $5\frac{1}{2}$*d.* to 11*d.* per lb.; fourths, common to superior, $5\frac{1}{2}$*d.* to 10*d.* per lb. A quantity of unworked cinnamon sold at 5*d.* to 7*d.* per lb., broken at 6*d.* to $6\frac{1}{2}$*d.* per lb, and about 200 bags quillings and cuttings at 4*d.* to $6\frac{1}{2}$*d.* per lb.

CLOVES.—The market for Zanzibar cloves has gained firmness this week, and sales by private treaty of fair quality on the spot have taken place at the rate of $3\frac{7}{16}$*d.* per lb. At the auctions 555 bales *Zanzibars* were offered and all bought in, owners being very firm in their views. Good bright picked *Penang* cloves sold at $12\frac{1}{2}$*d.* to $12\frac{1}{4}$*d.* per lb.

COCA.—At the bark auctions to be held in Amsterdam on December 17, 26 bales of Java coca (crushed leaves), weighing together about 3,500 lbs., will be offered for sale.

COCOA-BUTTER.—The value of this article has declined from $\frac{3}{4}$*d.* to 1*d.* per lb as compared with the rates paid at the November auctions; 250 2-cwt. cases, Cadbury's brand, sold on Tuesday at $11\frac{1}{2}$*d.* to $11\frac{5}{8}$*d.* per lb.; one lot realised $11\frac{3}{4}$*d.* per lb. In Amsterdam 85 tons of Van Houten's cocoa-butter sold at an average price of $55\frac{3}{4}$c. this week.

CREAM OF TARTAR is not quite so firm, and may now be bought at 93*s.* 6*d.* per ton for best white French crystals.

CUBEBS.—The following figures represent the exports of cubebs from Java during the first quarter (July 1 to September 30) of the last five seasons: 1891. 534 piculs; 1890, 310 piculs; 1889, 242 piculs; 1888, 108 piculs.

ERGOT OF RYE.—*Russian* ergot is still wanting. *Spanish* has advanced to 2*s.* 10*d.* per lb. since our last report. That price has been paid, and we even believe that 2*s.* 11*d.* per lb. was refused to-day. It is said, but we have not heard it confirmed, that there has been a sale at 2*s.* 11*d.* per lb., c.i.f. terms.

GINGER.—The demand still continues, and privately, before the auctions, 500 bags *Bengal* ginger sold at from 30*s.* to 31*s.* per cwt., with buyers at the close at the higher figure. At the close of last week 400 bags rough washed *Cochin* were also reported sold at 45*s.* per cwt., showing a higher market. At the weekly spice auctions the demand for *Cochin* ginger was decidedly weaker, and prices were from 1*s.* to 2*s.* per cwt. lower for ordinary and medium grades. Altogether, about 700 bags rough ginger of old import sold at 30*s.* 6*d.* for small shrivelled to 37*s.* for bright small. Medium and small ordinary rough to washed rough sold at 42*s.* to 43*s.* 6*d.*, good bright medium, half cut, at 56*s.* 6*d.* per cwt. About 30 packages *Jamaica* sold somewhat dearer, at 53*s.* 6*d.* to 75*s.* for good common to good.

GLYCERINE.—The market is decidedly firmer this week, in consequence, we understand, of an important rise in crude glycerines in Paris. Large contracts have been made at the rate of 47*s.* 6*d.* for double distilled, s.g. 1,260, but 48*s.* is now absolutely the bottom price in second hand. The manufacturers are mostly much higher.

GUINEA GRAINS.—The advance on the Liverpool market which we reported recently has since made further progress, and sales have been made at as high a figure as 27*s.* 6*d.* per cwt.

GUM ARABIC.—The Liverpool market has been decidedly firmer all round recently, and for some descriptions higher rates have been obtained. Of *Egyptian* sorts a few serons have been sold at 95*s.* to 100*s.* per cwt., while for fair middling *Niger* gum 40*s.* per cwt. has been obtained. There

have just been heavy arrivals (about 1,700 packages) of Niger gum, which will shortly be brought to market.

LYCOPODIUM.—New York advices report a considerable inquiry, with sales of 15 cases to arrive at 33c. The stocks in Russia have all been taken for shipment to Hamburg and New York. The crop output has been less than one-half of previous seasons, and, with the increased demand for the coming Presidential campaign in America, high prices are likely to prevail.

OIL (CASTOR).—Under the influence of somewhat considerable arrivals, the Liverpool market fell, at the end of last week, to $2\frac{7}{8}d.$ per lb. for good Calcutta seconds. At that price business took place, and afterwards the holders advanced their quotation to $2\frac{15}{16}d.$ per lb. First-pressure French oil has remained stationary at $2\frac{3}{8}d.$ per lb. The Calcutta market is described as having been fairly active during the week ending November 11. A favourable exchange, and the willingness of dealers to accept low prices, had brought about fairly large transactions. The imports of seed for oil-crushing had not been large, but, nevertheless, prices had receded.

OIL (CLOVE).—The present quotation for English-drawn oil of cloves is 2*s.* 7*d.* to 2*s.* 8*d.* per lb. for first, and 2*s.* 9*d.* to 2*s.* 10*d.* per lb. for second quality. There is some probability, however, that the new clove-duty regulations enacted in Zanzibar will affect the value of this article. An increase of 1*d.* per lb. in the value of cloves is equal to 6*d.* per lb. on the price of the oil.

OPIUM.—The arrivals of opium in Smyrna up to November 20 were 2,771 baskets, against 1,315 in 1890. In Constantinople (November 18) there were 2,270 baskets, against 2,640 in 1890.

POTASH SALTS.—In Liverpool Canadian pot and pearl ashes have been advanced in price 1*s.* per cwt., 26*s.* being the quotation for best Montreal pots and 46*s.* for pearl ashes. British refined saltpetre is held for 20*s.* 9*d.* to 21*s.* 9*d.* per cwt., according to packing, and German for 20*s.* 9*d.* per cwt. English yellow *Prussiate* of potash, $10\frac{1}{4}d.$ to $10\frac{1}{2}d.$ per lb.; *bichromate*, $3\frac{3}{4}d.$ per lb.

QUICKSILVER.—The importer's nominal quotation remains 8*l.* per bottle. Second-hand holders, after having touched 7*l.* 11*s.*, now are firmer again at 7*l.* 13*s.* 6*d.* to 7*l.* 14*s.*

QUILLAIA is rather weaker in tone, the excessive prices recently asked having influenced the demand considerably. The nearest quotation now is 31*s.* 6*d.* to 32*s.* per cwt.

QUININE.—On Friday a second-hand holder accepted 9*d.* per oz. for a 10,000-oz parcel of German bulk, thus reducing the price $\frac{1}{4}d.$ per oz. below the nominal quotation and bringing it down again to the "lowest on record" figure. Again, before the bark auctions, a fair quantity of second-hand German bulk quinine changed hands at 9*d.* per oz. The total sales are estimated at 30,000 to 40,000 oz. To-day it would not be so easy to buy at that figure.

SAFFRON.—In Spain values are still on the decline; good to fine Valencia has sold here at 27*s.* 6*d.* to 29*s.* per lb.

SHELLAC.—At auction on Tuesday 1,058 cases shellac of all descriptions were offered. The market was dull in the extreme, and only 480 cases found buyers, being forced off at a decline of 6*s.* to 7*s.* per cwt. on *orange*, and 8*s.* to 9*s.* per cwt. on *button* lac. *Garnet*, however, which was in very small supply, is fairly well held. The lots sold include good fair to good reddish second orange at 86*s.* to 88*s.*; fair, palish, partly cakey, at 85*s.* to 86*s.*; blocky pale and good free reddish unworked, 82*s.* to 85*s.* per cwt.; *button* lac, good firsts, somewhat out of condition, 85*s.* to 86*s.*; ordinary cakey to fair seconds, 75*s.* to 83*s.*; low and adulterated, 67*s.* to 71*s.* per cwt. The principal cause of the decline lies in the fact that, for the first time this year, a month has closed showing an increase in the arrivals over the deliveries, and in the heavy shipments for Calcutta. Since the auctions the market has gained firmness. To-day 100 cases TN orange sold at 90*s.* 6*d.* for December, and 300 cases at 92*s.* for January delivery. There are further sellers upon the latter conditions. The Calcutta market on November 11 closed very firmly. Business had been light since the beginning of the month, the demand from America being practically nil, that from London exceedingly slight.

TONQUIN BEANS.—Very slow of sale, the only business reported being in ordinary Pará beans at 1*s.* 5*d.* per lb. Good black to fine frosted beans are quoted at 1*s.* 7*d.* to 3*s.* per lb. *Angostura* beans more or less nominal at 6*s.* 6*d.* per lb.

VANILLA.—According to reports from Mauritius, dated November 10, vanilla is exceedingly scarce, and the quotations are high and more or less nominal.

WAX (CARNAUBA).—The market is steady, and a fair amount of business is taking place by private treaty at prices ranging from 45*s.* to 55*s.* for ordinary dark grey to fair yellow mixed, and up to 65*s.* per cwt. for fine yellow.

WHITE LEAD.—The market is exceedingly sluggish, and there has been a heavy overproduction lately. Last year Canada was an unusually heavy buyer, in consequence of which the output was nearly doubled. Now Canada has stopped buying, and the important South American markets are also paralysed.

LIVERPOOL.

OUR Liverpool correspondent writes:—

CANARY-SEED.—High prices have been paid for parcels to arrive, and on the spot all lots are firmly held at the recent advance, with the prospect of yet higher figures.

CASTOR OIL.—The cheap greasy lots have been cleared off, and recent arrivals having come to firm holders, the market has perceptibly improved.

GUINEA GRAINS.—Late arrivals have not found eager buyers, so prices are a shade easier.

IRISH MOSS.—The market has been cleared of common and medium qualities. As the season for collection is over, higher prices are looked for all round.

The chemical market is very quiet. *Caustic soda* very flat. Prices: 74-per-cent., 11*l.* 5*s.* per ton; 70-per-cent., 10*l.* 5*s.* per ton; 60-per-cent., 9*l.* 2*s.* 6*d.* per ton. Cream, 60-per-cent., 8*l.* 17*s.* 6*d.* per ton—all f.o.b. Liverpool.

BLEACHING-POWDER.—Unchanged—viz. 7*l.* 5*s.* per ton on rails, and 7*l.* 10*s.* per ton f.o.b. Liverpool in softwood casks.

SODA ASH.—Same as last week. Ammonium-process 58-per-cent. quoted 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.* per ton, less $2\frac{1}{2}$ per cent. discount f.o.b. Liverpool, for both prompt and forward delivery over 1892.

SULPHATE OF COPPER.—Flat and declined 5*s.* per ton. Quotations: 14*l.* 15*s.* to 15*l.* per ton prompt, and 15*l.* 15*s.* per ton forward.

THE DUTCH MARKET.

AMSTERDAM, November 27, 1891.

THE cinchona auctions to be held in Amsterdam on December 17, 1891, will consist of 5,752 packages (5,365 bales and 387 cases), about 498 tons, divided as follows: from Government plantations, 290 bales 75 cases, about 28 tons; from private plantations, 5,075 bales 312 cases, about 470 tons. This quantity contains of *Druggist's bark*—Succirubra quills, 2 bales 281 cases; broken quills and chips, 95 bales 15 cases; root, 75 bales. *Manufacturing bark*—Officinalis quills, 52 cases; broken quills and chips, 83 bales; root, 31 bales. Ledgeriana quills, 11 bales 39 cases; broken quills and chips, 3,719 bales; root, 1,027 bales. Hybrid broken quills and chips, 255 bales; root, 67 bales. Total, 5,365 bales 387 cases. The dates of the Amsterdam cinchona sales in 1892 have been fixed as follows:—January 21, February 25, March 31, May 5, June 9, July 14, August 25, September 29, November 3, December 8.

THE SMYRNA OPIUM MARKET.

(Telegram from our Correspondent.)

SMYRNA, December 2.

OUR market has experienced a further rise, and 150 cases taloquale have been sold to-day to the Philadelphia morphia-makers at 2*d.* per lb. advance upon last week's rates.

THURSDAY'S MARKET NEWS.

CANNON STREET, December 3.

THE drug and chemical markets have been steady, but very quiet this week, without any sensational feature, unless a sudden collapse in shellac may be dignified by that name. In drugs the principal alterations have been a further rise in ergot of rye, a strong advance in blue Turkey galls, and a rise (in Constantinople and Smyrna), in opium. Cinchona is a trifle easier; saffron and castor-oil somewhat lower, and Mitcham essential oils rather depressed. In fine chemicals, there has been a rise in antimonial preparations in the lists of several manufacturers; cream of tartar is easier, and quinine again lower. Glycerine has risen. The following are the principal alterations in other articles:—Higher—Alcohol, cloves, ginger, Guinea grains, kowrie gum, and Canadian pot and pearl ashes. Lower—Gum animi (bean and pea sizes), good and fine cinnamon, shellac, and cocoa-butter Quicksilver is improving. The Bank rate remains at 4 per cent.

BUCHU.—There have been some arrivals this week, amounting altogether to 16 bales, from Cape Town.

CAMPHOR (CRUDE).—Steady; the spot price for Japan ranges from 130*s.* to 135*s.*, and for shipment the quotation is 135*s.*, c i f. terms. These high prices have brought business to a standstill for the moment.

CAMPHOR (REFINED).—There is no change in the English quotations; the German dealers are firm at 1*s.* 6*d.* to 1*s.* 6½*d.* per lb.

ERGOT.—There is no change to-day, 2*s.* 11*d.* to 3*s.* being asked for Spanish; it should not be lost sight of, however, that the business now done is nearly all speculative, and that the demand for *bonâ-fide* consumption is anything but large.

GALLS (TURKEY) have risen very considerably, and for goodblue Bassorah from 72*s.* 6*d.* to 75*s.* has been paid. We hear there is nothing offering now under 80*s.* per cwt.; whites are also considerably dearer. *China* galls remain quiet at from 50*s.* to 56*s.* per cwt. for fair to good bright bold quality on the spot.

GAMBIER.—*Cube* gambier is very quiet with small sales of good free on the spot at 32*s.* 6*d.* per cwt. *Block*, dull of sale; new at 20*s.* 6*d.*, old at 20*s* 3*d* to 20*s* 4½*d.* per cwt., landing weights.

GLYCERINE has advanced again, and cannot now be had under 49*s.* per cwt. for double-distilled s.g. 1230.

GUMS (VARNISH).—At to-day's auctions a considerable supply of *Kowrie* gum was offered; it sold well at steady to somewhat dearer prices, fine soft gums being particularly in request. The following prices were paid: Good to fine transparent, 9*l.* 17*s.* 6*d.* to 11*l* 7*s.* 6*d.*; good amber to fine pale, 7*l.* 10*s.* to 8*l.* 10*s.*; brown selected to fair amber, 97*s.* 6*d.* to 6*l.* 10*s.*; half scraped to common rough and soft, from 73*s.* down to 40*s.* per cwt.; good to fine pale soft, 92*s.* to 127*s.* 6*l.*; ordinary dark to fair red from 35*s.* to 70*s.* Of 190 cases *Animi*, only a small part found buyers, the bulk being bought in above market rates; bean and pea varieties sold somewhat cheaper, good medium to hold ambery sorts, 11*l.* to 12*l.* 12*s.* 6*d.*; bean and pea, 112*s.* 6*d.* to 122*s.* 6*d*; and siftings, 35*s.* For good ambery to fine pale washed Madagascar, 8*l.* 15*s.* to 10*l.* 12*s.* 6*d.* was paid; and 6*l.* 17*s.* 6*d.* to 7*l.* for very good bean and pea sizes. Of *Olibanum*, very little was offered, and there was hardly any demand. The same may be said of *Sandarac*. *Copal*: flat, and all retired unsold. *Damar*: steady, all sold at 37*s.* to 41*s.* 6*l.* for ordinary brown to medium Singapore.

OILS (MITCHAM).—*Peppermint*, which early in the season was thought to be in very strong hands, has nevertheless shown signs of weakness lately, and is now being offered at 34*s.* per lb. Early in October it was confidently anticipated amongst the growers that not only would the price then ruling (about 36*s.* per lb) be maintained, but that it would still further advance. That, however, has not been the case, the high figures having checked the demand, so that during the last month very little has been done in the oil. This has made the holders anxious to relieve themselves of a portion of their stock. At the same time, it is certain that the stock in growers' hands has not been so light for years as at present, and any demand would quickly put the price up again to its former level of 36*s* per lb. *Lavender* has also declined from about 55*s*, early in the season, to 45*s.* to 46*s.* per lb. *Chamomile* oil, of which there is very little to be had, has also gone down to 57*s.* to 53*s.* per lb. This oil also made its best price early in the season.

OPIUM.—There was a good deal of excitement among the opium-dealers to-day, owing to the receipt of telegrams from Constantinople announcing a very strong demand for shipping varieties, and an advance locally of 1*s.* to 1*s* 3*d.* per lb, while large orders were still to be executed. They report that in London a good deal of opium has been taken out of the market, mostly of a manufacturing character. Good seconds may still be had, however, at 8*s.*; fine at 9*s.* From Persia there are also telegrams announcing a higher market. There have been some sales, it is said, at 9*s.* per lb. for good Persian. From China the news comes that Turkey opium is in good demand there. All this looks very exciting, but it should not be forgotten that if all the rises in opium which have been announced this season were added together the price would be three or four times as high as it is now.

ORRIS ROOT.—Good to fine Florentine is offering at 130*s.* to 140*s.* on the spot, which is not quite up to the recent quotations. For arrival, however, the market is above the London parity.

PATCHOULI-LEAVES.—For very fine leaves, 6½*d.* to 7*d.* per lb. is asked. The *Akassa* has brought 14 bales of patchouli-leaves from the West Coast of Africa this week.

QUICKSILVER is rather higher to-day. The lowest figure at which the metal can be bought from second-hand holders is 7*l.* 14*s.* per bottle. It is reported that some of the second-hand dealers have oversold themselves.

QUININE is very dull of sale, and 9*d.* per oz is the nearest quotation for second-hand German bulk. The manufacturers prices are rather uncertain:—Auerbach quotes 9⅛*d.*, and the B.S. agent has no quotation at present.

SHELLAC.—The market closes with a dull tone, while 8*s* 9*d.* per cwt. is the quotation for TN orange, December delivery.

STAR-ANISE.—For genuine Chinese star-anise on the spot 100*s.* per cwt. is the price; to arrive 92*s.* 6*d.* per cwt, c.i.f. terms, is quoted.

TURMERIC remains very firm. *Madras* finger at 32*s.*, fair *Bengal* root at 19*s.* per cwt., with a little business at these figures.

WAX (JAPAN).—Very slow of sale at 43*s.* to 44*s.* per cwt. for good to fine pale hard squares on the spot. For shipment the article may be bought at 39*s.* per cwt.

MR. OLIVER PEMBERTON, the newly-elected Birmingham coroner, is the doctor who gave chemists such valuable aid in the milk-of-sulphur prosecutions defended by the Chemists' and Druggists' Trade Association.

ASBESTOS IN U.S.A.—The *Scientific American* is informed that at Spikenard, Jackson, Oregon, asbestos, of all grades and in large quantities, has recently been discovered, and active preparations for working the various fields are being made. The mines are near good roads, with plenty of timber and water power close at hand.

THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, has been sent to all whose subscriptions are now in force. We shall be obliged if those who wish extra copies (2*s.* 6*d.* each to subscribers) would order as soon as possible. Subscribers will please note that the Diaries are sent carriage paid. If any are asked to pay on delivery, the best plan is to pay and take a receipt. Send the receipt to us and we shall refund the money.

Correspondence

Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., will be attended to in the order received.

Chloroform and Gaslight.

SIR,—It is curious that such scepticism should exist in reference to the action of gaslight on chloroform.

I frequently give chloroform in a certain operating-theatre of large size, but deficient in ventilation, and whenever we have recourse to artificial light, the administration of chloroform is followed in about ten minutes or a quarter of an hour by the formation of intensely-irritating and even suffocating fumes. I say "fumes," but, as a matter of fact, the product is quite invisible, and the effect on the air-passages, resembling that of dilute hydrochloric-acid gas, persists for some hours.

These emanations are never present when the operation is performed by daylight, and their intensity is distinctly proportionate to the amount of chloroform used. On one or two occasions the proceedings have had to be suspended while the air was being changed. Latterly the nuisance has to some extent been obviated by providing for efficient ventilation beforehand.

As there was no other possible source of atmospheric contamination, there can be no reasonable doubt as to the source of the irritating products. Indeed, the diagnosis in this case was arrived at by a process of elimination.

I am, Sir, yours faithfully,

29 Gower Street, W.C. ALFRED S. GUBB, M.D.

Veterinary Counter Practice.

SIR,—Unlike your "Northern Correspondent," I think it would be a piece of folly for chemists to sell a popular edition of your "Veterinary Counter Practice." I have found it a most useful work, and it has put several pounds in my pocket already, and I hope to get more benefit still out of it.

But to go and give knowledge and information of that kind to the general public seems to me a suicidal policy, and one that the great body of chemists would very strongly object to.

I think your "Northern Correspondent" had better go on the other tack, and keep the "V. C. P." for his own reading rather than the instruction of the coachmen who use his shop. FENUGREEK. (174/46.)

November 23.

An Excellent Ink.

SIR,—I find an excellent ink can be made by mixing equal parts of logwood chromate ink (THE CHEMIST AND DRUGGIST, May 12, 1888, page 636) and a good gall-and-iron ink, such as Dr. Ure's (Beasley, page 372). It is a better colour than the logwood ink alone, and gets blacker in time.

Kingston, Jamaica. E. BUTLER.

[The logwood ink may be made in the following manner:—Dissolve 1 oz. of extract of logwood in 15 oz. of lime-water by a water-bath, then add carbolic acid 5 minims, crude hydrochloric acid 30 minims, water 1 oz., mixed together. Continue to heat and stir for half an hour, then set aside to deposit and cool. Pour off the clear liquor, and add to it gradually and with constant stirring a solution of 8 grs. of yellow chromate of potassium in 2 oz. of water, next 1 oz. of acacia mucilage, and make up to 1 pint with water.]

Terms of Peace.

SIR,—The year is fast closing, and many manufacturers of stamped medicines are laying out their plans for next year. The time, consequently, seems opportune to address a few words to them.

Manufacturers must, I think, admit that the opposition of chemists and druggists militates very much against the sale of these advertised articles, and that their opposition has moderated the success of even the best specialities.

Manufacturers have in effect admitted this, for they have made several attempts during the past few years to regain the confidence and goodwill of retailers, notably Elliman's attempt, the fault of which, I think, lies in their allowing the goods to be cut at all. If any attempt to stop the cutting is to be made, why not make it thorough, and let the price printed on the package be the price, and not some lower figure?

I believe, and respectfully offer the opinion, that if manufacturers will insist on the printed price, as shown on the package, being obtained, and do not advance their wholesale prices, chemists, &c., on their part will agree to drop their opposition, and deliver to their customers without parley the article demanded, relying on their own advertising to push their own specialities. A form of agreement similar to Elliman's could easily be drawn out, and, I think, would be willingly signed, for, after all, it is not compatible with a chemist's dignity to be continually pestering the public to buy his preparation in place of the one they intended to purchase; nor do I think the public have the same confidence in the "pushing chemist" as they had in days gone by for the chemist who supplied without hesitation the article demanded (a *rara avis* now).

I consider, therefore, that there would be a gain all round, and if the arguments I have advanced are tenable, I ask you, Mr. Editor, to lend your powerful pen towards the early realisation of this project. Yours truly,

"WALES." (176/56.)

Note on Caramel.

SIR,—We have for many years imported burnt sugar, which we have sold to manufacturers of aërated-water beverages and to others with satisfactory results. Some little time ago, however, we received complaint of a cask of it. One maker of orangeade said it had made his beverage cloudy, and sent us a bottle in which he had used it, which certainly did contain a good deal of deposit.

We asked him if he thought it could possibly be owing to something wrong with the other ingredients. He said, No; that time after time he had used the burnt sugar with which we had supplied him, and had never found anything of the kind before. We communicated with the shippers, who re-sampled the consignment from which the cask had been sent, and stoutly maintained there was nothing the matter with it. We pointed out to them that it was probable that it was different to their previous shipments of the article, because our customers had not complained of these. We informed them further that we had ourselves put into a solution of the article complained of a little tartaric acid, and had found very soon the commencement of a cloudy deposit.

They referred the matter to the well-known analyst, Mr. Otto Hehner, who sent the following reply:—

(Copy of Mr. Otto Hehner's letter.)

DEAR SIRS,—In reply to your question, I beg to say that dilute solutions of tartaric acid in water, unless made with boiling water and bottled up airtight whilst quite hot, always go bad from development of fungoid growths.

If a mixture of caramel and tartaric-acid solution is kept (unless made boiling, as above), it would equally go bad from the growth of fungus in the tartaric acid.

Very faithfully yours,

OTTO HEHNER.

We put some ten grains of tartaric acid into a wineglassful

of clear bright solution of burnt sugar in cold water. In the first twenty-four hours no deposit appeared, but on the following day the solution was distinctly cloudy, and in two more days' time was thick with fungoid growth.

Going on to further experiments, two solutions of caramel were made one by the addition of boiling water, one by cold—and to these was added a little tartaric acid. These solutions were put into corked, narrow-mouth bottles, and left to stand for several days. Neither of them showed any trace of fungoid growth, but remained perfectly clear. The corks were then removed.

In about four days, after being exposed to the air, the cold-water solution showed cloudiness, and the fungoid growth began to develop. For some four days more the hot-water solution remained clear, but then began to get turbid, and the fungoid developed likewise.

A clear solution was filtered off from each of these two, and some boracic acid was added (about 2 grains to 3 drachms of each solution), and they were left uncorked. For over a week both remained bright and clear, then fungoid appeared in the cold-water solution and, three days after, in the hot-water, but, even after standing for a fortnight, the growth was nothing like as excessive as in the caramel and tartaric solutions to which no boracic acid had been added.

An experiment was also made of leaving a cold-water and a hot-water solution of caramel without any addition of tartaric acid, or anything else, exposed to the air. The cold-water one developed fungoid after about three days, and the hot-water one after about five, but this growth was not nearly as rapid, nor did it increase to the same extent, as in the solutions containing tartaric acid.

From these experiments, therefore, the conclusions are drawn that when a caramel solution is used in conjunction with a composition of aërated-water beverage, it should not be left to stand exposed to the air, but should be immediately put in air-tight bottles, and that unless this be done, solution of the caramel in hot water is not sufficient to ensure the absence of fungoid growth. It appears that boracic acid, though it retards, will not efficaciously or thoroughly check fungoid growth in a caramel solution when the latter is in combination with tartrates.

No doubt a large number of your readers are cognisant of these things already, but they may interest some who have not given attention to them hitherto.

Yours truly,

Redcliff Street, Bristol. A. & J. WARREN.

Chemists' Claims.

E. D. (177/18) writes us a very long letter, for which we cannot find space. The pith of it is in the conclusion. "E. D." remarks:—"The mystery is why will chemists and druggists remain such a helpless and unprotesting class, and quietly see their business divided up amongst any and every sort of tradesmen with no other ideas of self-help than going in more largely for fancy goods and aërated waters? Why not systematically and persistently—not by fits and starts, years between—endeavour to get a law passed, not only in their interests, but in that of the public generally, to restrict the sale of all drugs and medicines to those properly qualified to handle them? Any other trade can do similar things and succeed—why should the chemist and druggist fail? It is not so very unreasonable to wish that tradesmen should be well acquainted with the goods they sell. And when those goods are so potent for both good and evil, I am quite convinced that, by united and persistent effort, the business of the chemist and druggist could be raised to its old status, and prevent it drifting, as it unquestionably is now, to the level of ordinary money-making trades."

In an earlier part of the letter "E. D." refers to the sale of carbolic acid by oilmen. If he will note that it has not been found possible to get even that dangerous chemical scheduled for exclusive sales by chemists, he will perceive how hopeless would be the crusade which he advocates "to restrict the sale of all drugs and chemicals" to chemists and druggists. It is all very well to have a big ideal, but it is necessary to be reasonable and practical, or discussions are valueless.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Lin. Terebinth. Co.

SIR,—I think "Cymbro" should be the best judge in a case like this, knowing, as I presume he does, somewhat the nature of the case of the patient. But as an outsider I venture to suggest that it is an error on the part of the medical man between the words "Co." and "Acet.," he having having written "Lin. Terebinth. Co." as distinguished between "Lin. Terebinth." (simp.) Yours, &c.,

BOSWORTH. (174/68.)

SIR,—The B.P. translates lin. terebinth. as liniment of turpentine, and lin. terebinth. acet. as liniment of turpentine and *acetic acid*. Therefore I think "lin. terebinth. acet." is meant by the "compound." Yours truly,

STUDENT. (175/68.)

Lin. tereb. acetic. H. S. GREEN, and WALTER MAISH.

We should say, "Lin. Terebinth. Acet."

VINUM AURANT.

What Should be Done?

124/21. *J. H.* asks what should be done with the following prescription when the prescriber could not be consulted?

Hyd. subchlor.	gr. ij.
Liq. ammon. acet.	ʒiij.
Mist. amygdal. ad	℥ij.

M.

A teaspoonful every two hours.

[In the face of the clearly-written "subchlor." we should not hesitate to dispense calomel, mixing it by trituration with the mist. amygdalæ. Eighth-of-a-grain doses of perchloride every two hours would obviously be excessive.]

Conscientious Dispensing.

SIR,—I fully agree with Mr. Pond that nothing but the clearest necessity can justify a dispenser in making any addition whatever to a physician's prescription; but that cases do occur in which the addition of something to enable the patient to accurately divide the doses is necessary I think no experienced dispenser will deny. The matter is one calling for the exercise of experienced judgment.

With regard to the guaiacum mixture, I am surprised to see that Mr. Pond appears to have used tinct. guiac. ammon. Tinct. guaiaci is well known; it is mentioned in Squire, and is official in a great number of foreign pharmacopœias. It was formerly in the Edinburgh and Dublin Pharmacopœias. The mixture as written may be made without mucilage, but it does not yield a satisfactory product. Mucilage is a great improvement, to say the least. If made with ammoniated tincture, it leaves nothing to be desired as regards appearance; but it seems to me that to object to the use of about 3 drachms of mucilage, and put in nearly 6 drachms of spirit of sal volatile, is to fall into the error of people of old time, who tithed mint, anise, and cumin, yet neglected the weightier matters of the law. Yours, &c.,

3 West Kensington Terrace, W. PICKARD.
November 30.

LEGAL QUERIES.

173/28. *J. S. W.*—We think the announcement would make the medicine subject to medicine-stamp duty. You can get authoritative information by applying to the secretary of the Board of Inland Revenue, Somerset House, sending them two copies of the announcement with your letter.

176/30. *T. M.*—We cannot form a satisfactory opinion from the statement you send. If the illustration is an essential part of your adversary's trade-mark, he can restrain you from using it for the same class of goods.

176/34. *H_2SO_4.*—We do not see how you could be fined in respect of curry-powder under the Sale of Food and Drugs Act. We know of no standard by which the quality of this compound can be estimated.

124/2. *W. M.*—We cannot see that you have any ground of action against the magistrate or the police.

174/23. *Anxious.*—The Apothecaries' Assistants' certificate is not a sufficient qualification for the owner of a chemist's business. Whether it would satisfy a court in the event of a prosecution for the sale of a poison has not been proved. We think it would not. Except in regard to the sale of poisons, there can be no offence in anyone "managing" a chemist's business.

178/15. *H. T.*—You may make lin. camph. co. and lin. saponis with methylated spirit, and you may use these preparations in a proprietary liniment. But if you want to use for them the purer sort of methylated spirit, you must get permission through your Excise officer. In any case it is wise to get authoritative permission. (2) It is not strictly legal for anyone except a registered chemist to describe himself as a "manufacturing chemist." But if he is such, and does not use the designation for retail purposes, he is not likely to be interfered with. Only the Pharmaceutical Society can prosecute, and they never have done so where only a *bonâ-fide* use of the description has been made.

MISCELLANEOUS INQUIRIES.

171/43. *E. M.*—(1) The "Calorific Fluid," for dental purposes, is applied as a spray or with a brush. (2) **Rosemary and Camphor Hair-wash.**—In each 1*d.* packet give about 3 drachms of the following mixture:—

Powdered camphor	½ oz.
Oil of rosemary	30 drops
Borax	1 lb.

Mix.

170/21. *Graph.*—(1) The use of acetic acid in the glue compound is objectionable, we should think, on account of the action which the acid will have upon the ink. Adhesiveness is not a desirable feature in a "graph," but if you wish it you can get what you want by macerating 1 part of glue in 2 parts of strong acetic acid, then add 1 part of glycerine and heat on a water-bath until a uniform mixture is obtained. (2) **Brush-polish.**—We find the following in a back volume:—

Seedlac	4 oz.
Canada balsam	1 oz.
Dragon's blood	q.s.
Spirit	1 pint

Digest until dissolved, and strain.

170/40. *W. E. S.*—**Chromograph.**—The following is one of the best formulæ we know of:—

Nelson's gelatine	3 oz.
Water	4 oz.
Glycerine	20 oz.

Soak in the water for a day, then add the glycerine and heat gently until dissolved.

A good ink is made by dissolving 2 drachms of methyl violet in a mixture of 2 drachms of spirit and 6 drachms of water. From 100 to 150 copies can be taken with this graph and ink.

107/16. *Omega.*—See the formula 710/91 in our issue of November 14.

106/2. *Inquirer.*—Verjuice is the expressed juice of unripe grapes. It should not be difficult to make an article like it, but the best and cheapest plan is to make it from the small grapes which can be got for 2*d.* or 3*d.* per lb.

171/64. *Retlaw.*—A pint of methylated spirit to the gallon will suffice to prevent the liquid in show carboys from freezing. The mineral-naphated spirit will not do.

107/13. *Student.*—Wills's "Chemistry" will suit you. The other books which you have are sufficient.

171/46. *Tory Democrat.*—Although Quinine Wine is made with detannated orange wine (CHEMIST AND DRUGGIST, July 23, page 149), you have still to overcome the tendency of the wine to deposit insoluble lime salts. This can only be done by setting the wine aside for at least three weeks after it is made, and decanting the clear portion. Filter the rest.

172/69. *Junior.*—See the list of books in the DIARY for 1892, page 323, and our Educational number, September 19.

173/17. *Sapientia.*—**A Polishing Soap** may be made by mixing finely-powdered bath-brick with 10 per cent. of soap and moulding into cakes by pressure. The popular soaps are made with selected natural argillaceous deposits.

173/69. *Ajax.*—The opacity is one of the objections to **Dextrin Mucilage.** The best way to prevent it is to add to each ounce of the mucilage 2 minims of nitric acid, and heat carefully (almost to boiling), then add 5 grains of boric acid (per oz.), and make up to the orginal volume with water. There is great variation in the dextrins of commerce, as you may judge by reading Dr. Rideal's article in THE CHEMIST AND DRUGGIST, vol. xxxviii., page 788.

104/26. *Preservative.*—The process of **Tawing Skins** depends upon the action of alum: it is not tanning in the ordinary sense. The best plan in the case of a sheep's skin is to stretch it upon a board when fresh; if not fresh, sponge the skin with a solution of sal ammoniac (1 in 4 of water), which makes it soft and pliable. When you get the skin stretched, brush it all over with the following solution:—

Alum	4 oz.
Sal ammoniac	2 ,,
Hot water	1 pint

Then expose to the air, and renew the application of the above solution daily, removing with a piece of pumice any rough fibres. To **Dye the Skin Black** it is customary to give first a bath of walnut-bark decoction, but you may omit that, and use the following process:—Make a bath, consisting of 1 lb. of camwood and 1 lb. of copperas in 5 gallons of water; heat up to about 200° F., and work the skins in this for an hour, maintaining the temperature: then withdraw the heat, and allow to remain for 12 hours. Drain and rinse the skins with clean water, and steep for 1½ hour in a logwood bath (1 lb. to the gallon), and finally in a solution of copperas (½ lb. to 4 gallons). Allow it to remain in this for an hour, then drain, rinse, and dry in the air. The skin after this may require to be treated with sal ammoniac. For **Brown Dye** first steep the skin in a solution of alum and common salt, 2 oz. of the former and 1 oz. of the latter to a quart of water; then pass through a bath of logwood, with a very little green copperas. For **Red** the mordaunt used is alum and cream of tartar, and the dye madder. If you can arrange the skins so that the wool only is immersed in the bath, all the better for your results. You will see that the process of dyeing is tedious, and in practice it is more so, much depending upon the skill of the operator.

170/36. *G. C.* wants to know the origin, uses, and any information about the gilded balls found in a few chemist's windows called, he believes, *Globuli Contrayervæ.* [The

globules were made from pulv. contrayervæ (a mixture of powdered contrayerva root 1 part and powdered oyster-shells 2 parts), by massing with honey and the like. But we are not certain that this is what "G. C." wants, and will be glad to receive the opinions of subscribers.]

171/29. *B. G. H.*, referring to the formula for a preparation like Seigel's Syrup, which we printed a fortnight ago, says: "A few weeks ago I had the following to 'dispense':—

Borax	20 grs.
Gentian powder	20 „
Cayenne	2 „
Oil of wintergreen	4 drops
„ sassafras	10 „
Decoct. aloes conc., B.P.	2 oz.
Liquid taraxacum	drs.
Rectified spirit	2 „
Treacle to make	4 oz.

Is this the formula referred to in your reply to 156/19 ('W. B.') in last week's CHEMIST AND DRUGGIST as having been published by you some years ago? This seems to me to make an article more nearly resembling the original in having a thick deposit, which would not be so prominent if made according to your amended formula." This is the formula, which we first published several years ago. The formula given a fortnight ago is purposely intended to be clear, and our correspondent has done well to call attention to this point. The same correspondent tells us that he is putting up a Cough-mixture from the following formula:—

	Parts
Suc. glycyrrh. Solazzi	4
Sacch. alb.	32
Aquæ ad	47
Glycerini	10
Oxymel. scillæ	10
Acet. ipecac	
„ rubi	5
Acid. sulph. aromat.	1
Chlorodyni (25 per cent. chlorof.)	2
	80

He asks if we could suggest any addition or alteration that would add to its efficacy.

[This should make a very good mixture. There is enough in it, and it would probably be better without the raspberry vinegar, the flavour of which is scarcely wanted. The sulphuric acid is of little general benefit in coughs, although, like nitric acid, it does do good in purely phthisical cases. We would omit that and the raspberry vinegar, replacing them with anise-water.]

171/70. *Pectoral.*—Cough-mixtures containing much extract of liquorice are apt to deposit glycyrrhizin, which gives them an unsightly appearance. Wherein your mixture is weak is its comparative poverty in pure expectorants. If you will try the following, we think you will find it an improvement:—

Camphor	ʒiss.
Benzoic acid	℥j.
Chloroform	ʒiss.
Oil of anise	♏iij.
Tincture of sanguinaria	ʒj.
Tincture of senega	ʒv.
Rum	℥v.

Mix these together, and add to the following:—

Acetate of morphia	gr. j.
Extract of liquorice, fluid	℥iv.
Mucilage of acacia	℥vj.
Oxymel of squill	℥xvj.
Water	6 pints

Mix by brisk shaking.

Set aside for several days to deposit, and decant the clear mixture.

Dose for adults: A teaspoonful. Not to be given to children below twelve years of age.

175/35. *W.*—See under "Chemistry" and "Dictionaries" on pp. 319-21, DIARY 1892.

175/72. *Bedford* (Cape Colony).—Five-grain doses of antifebrin twice a day are perfectly safe. It is larger doses, often repeated, which are dangerous. Brandy internally and ammonia externally are the remedies for any sudden collapse.

175/45. *C. G. W.*—Coca Wine, not liable to Excise-duty, should contain at least 1 grain of cocaine in an ounce. That is the standard fixed by the Board of Inland Revenue, but the Board would doubtless pass any wine sufficiently medicinal in taste to make it unlikely to be used as a beverage. The best plan is to send a sample of the wine which you make to the Board, with the formula, and ask if a licence will be required to sell it. To make the wine mix 1 oz. of liquid extract of coca with 19 oz. of Malaga. Set aside for 14 days, and filter.

177/3. *Juno.*—You will find full particulars of the Bell Scholarship in the last Educational Number of this journal, published September 19, which you can obtain from the publisher if you have not a copy.

175/50. *Boss.*—You will find general directions for the preparation of Gelatine Pastilles in the "Art of Dispensing," pp. 87-90. You will require a much stiffer basis than is provided by the formula given therein. Try gelatine, 5 parts; sugar, 2 parts; glycerine, 1 part; water, 6 parts. Macerate the gelatine in the water until soft; then add the glycerine and the sugar, and heat on a water-bath until the whole weighs about 9 parts; then add the medicament, suspended or dissolved in water, and continue to heat until the whole weighs 9 parts. Divide into lozenges of the size you require.

120/18. *Dexter.*—Salt is put into fresh Rennets or "vells" to preserve them, and into the essence for the same purpose, as most essences are weakly alcoholic and would not keep otherwise. But no doubt custom has something to do with the matter, for the salt answers no practical purpose other than preservation.

119/27. *T. S.*—Sycosis is extremely difficult to get rid of. There are so many kinds of it, and sometimes a cure is effected, but how, and with what, it is difficult to say. Unna recommends the following ointment to be used after shaving:—

Hydrarg. perchlor.	gr. ss.
Resorcin. pulv.	gr. xx.
Ung. simplicis ad	℥ ss.

M. Fiat unguent.

Information Supplied.

Has Paid for Half a-Century of "The Chemist and Druggist."—Just a line to thank you for your information of last week. I have made use of it with the result that I shall probably benefit to the tune of 20*l.* to 25*l.* during the next twelve months. 173/70.

157/4. Parazone is sold here, in Edinburgh, by a party of the name of Newy, his place of business being in Leith Walk; a drysalter he is. It is supposed to be a solution of chlorinated lime. It is used instead of chlorinated lime, and if people ask us for it, and we say we have not got it, they then ask for "chloride of lime," which shows that they are the same thing. H. M. ROBIN.

Information Wanted.

176/6. Formula for Dr. Jenner's liver-mixture.

176/42. Would any who have used the bottle-seal for aërated waters inform a correspondent how the public like the seal?

123/17. Can anyone say on a postcard what is the composition of St. Raphael wine?

OLEUM RICINI "A1."

For some time past we have seen that there has been an opening in this country for a

HIGH-CLASS CASTOR OIL

which would stand the winter temperature without congealing. Knowing this to be the case, and also being aware that in Italy a large quantity of East Indian Seed was imported for the manufacture of Castor Oil, we made arrangements for collecting fresh-selected Italian Seed, and for pressing the same when decorticated in one of the best-appointed factories in Italy, under the personal supervision of one of our Staff, who went from Birmingham for that purpose.

In the manufacture of the Oil we took care that the seeds should only be subjected to moderate pressure, the result being that only **40 per cent.** of the possible yield was extracted, thus preventing the admixture of the highly-flavoured and coloured Oil which is obtained from the later pressings.

The Virgin Oil so obtained is exceptionally sweet, and is superior to anything else in the Market. It will remain bright in the coldest wintry weather at a prolonged low temperature.

We therefore have great confidence in recommending this Oil under the **"A1" BRAND** to our customers, feeling sure that, if they introduce it to Medical men and the public, it will give great satisfaction.

In order that the Oil may be generally used we have kept the price **as Low as possible,** and are offering it as follows:—

In Winchesters, bearing our Trade Mark, at	**10d.**	**per lb.**
In Cases of 12 Winchesters	**9½d.**	,,
In 40-lb. Tins	**9½d.**	,,
In Cases of four 40-lb. Tins	**9d.**	,,

Free on Rails Birmingham. *Carriage paid on £5 orders.*

SOUTHALL BROS. & BARCLAY, MANUFACTURING PHARMACEUTICAL CHEMISTS, BIRMINGHAM.

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GRANULAR EFFERVESCENT PREPARATIONS.

"ALFRED BISHOP" was the Inventor and Original Manufacturer of all Granular Effervescent Preparations. All others are imitations. SILVER MEDAL, HIGHEST AWARD, PARIS, 1889.

NOTICE TO THE TRADE.

In consequence of the repeated enquiries for a cheaper **Granular Effervescent Citrate of Magnesia,** by various houses, we have decided to manufacture a second quality at a low price. Each bottle will bear our Red Label with Name and Trade Mark. We offer it to our customers with an assurance that, whilst not quite equal in quality to our best, it is far superior in Colour, Effervescence, Clearness, and Flavour, to any of the low-priced articles in the market. Our preparation contains a large proportion of Citric Acid, and is made by the NATURAL PROCESS, and not artificially with Tartaric Acid only and Alcoholic Solution of Sugar. We guarantee that as much care is taken in its manufacture as in our first quality, and that it will keep quite as well. We are certain it will enable the Chemist—who finds it necessary to keep a second quality, and who prefers to put it up himself, and with his own Name and Label—to supply his customers with a thoroughly sound and reliable article.

We intend selling it in BULK ONLY, at 1*s.* 3*d.* per lb., the smallest quantity at Wholesale Terms being 4½ lbs. Our usual Discount given. Special Terms for larger quantities.

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Professor Dr. Vogel says:—". . . . . light snowy white and carefully prepared article—DISSOLVING COMPLETELY and quickly in water or alcohol."

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DR. BYK'S PERMANENT HYDROQUINONE. Light yellow crystals. Insensible to moist air and light.

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ACID. BENZOIC. E TOLUOLO. Almost odourless.

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Guaranteed to be sublimed from and retaining the fragrance of Gm. Benjamin.

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Perfectly white needles.

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Purest quality, powdered and granulated. Dissolves colourless in water, alcohol, and ether, free from resinous and colouring matter. For medicine and finest work in art.

ACID. TANNIC LEVISSIMA PUREST.

Dissolves colourless in water, alcohol, and ether, free from resinous and colouring matter. Used for similar purposes as the chemically-pure powder.

COFFEINE, PUREST, AND ALL COMPOUNDS.

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Benzoic Acid & Benzoates.
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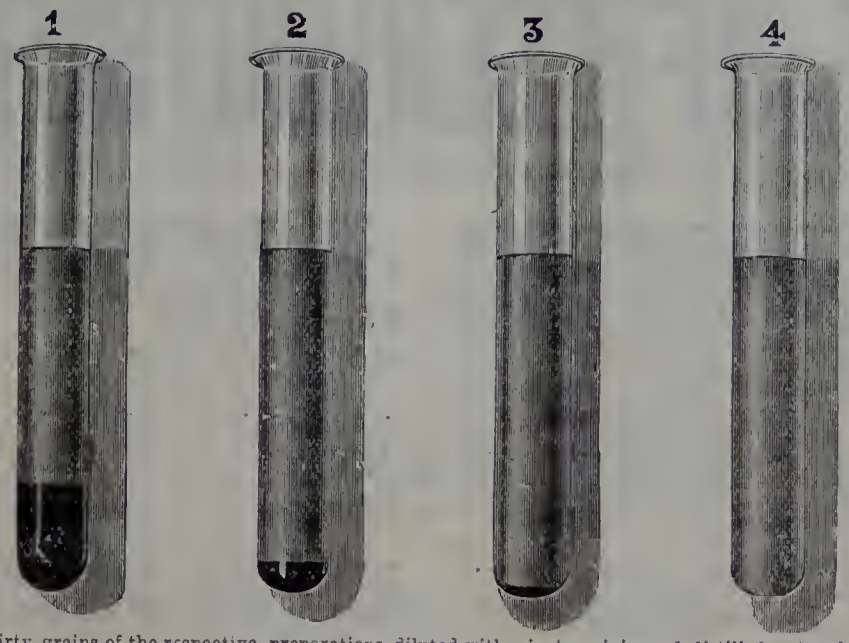
*** PROFESSOR J. ALFRED WANKLYN, M.R.C.S. Lond., Professor of Chemistry, Corresponding Member of the Royal Bavarian Academy of Sciences, &c., &c.**

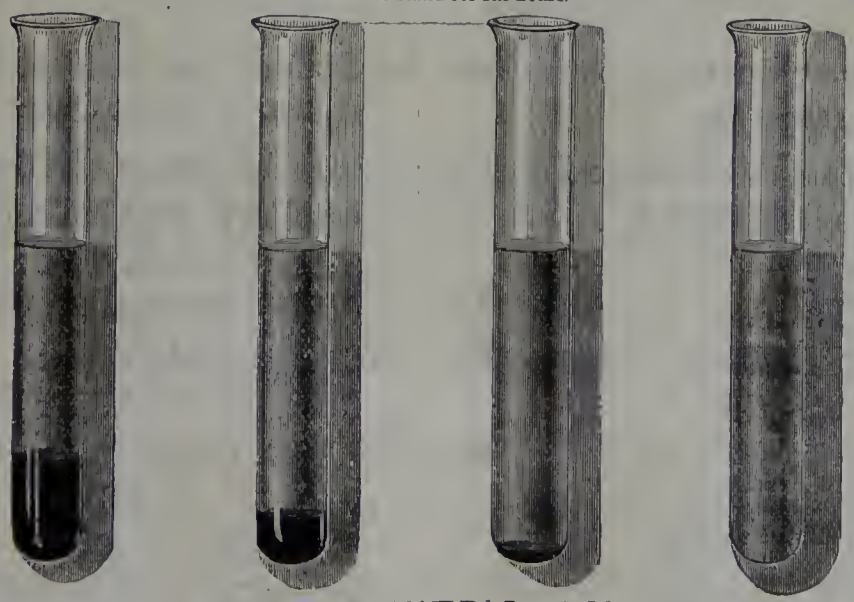
With the object of demonstrating the comparative amount of natural unchanged albuminoids or true nourishing proportion, contained in some of the chief preparations of concentrated fluid meat essences now in use, the following simple method was adopted, and which the appended illustrations faithfully demonstrate.

No. 1 is Caffyn's Liquor Carnis; 2, 3 and 4 are the best-known meat preparations in the market.

CAFFYN'S LIQUOR CARNIS. HEAT ALONE.



The above tubes represent thirty grains of the respective preparations diluted with ninety minims of distilled water, boiled for three minutes, and allowed to stand for six hours.



HEAT & NITRIC ACID.

The four lower tubes represent similar materials and proportions, boiled for three minutes, after the addition of ten minims of pure nitric acid. From this demonstration it is evident that CAFFYN'S LIQUOR CARNIS contains a much greater proportion of *pure, unchanged albuminoids* (the nourishing material) than any of the other preparations; 3 and 4 giving almost negative results, the process of manufacture having *entirely changed* or *destroyed* them.

* *These experiments were conducted originally by a well-known Physiologist in London, and formed the subject of an article in the Hospital Gazette.*

A MOMENT! Are you selling CAFFYN'S LIQUOR CARNIS AND RAW BEEF PREPARATIONS? If you are we will send you Books, Cards, &c. If you are not, drop us a line and we will send you some for stock, and a supply for any doctor you think would test them.

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COMPOUND SULPHUR	1/2	1/-
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We have now many hundreds of letters from eminent Medical Men who prescribe Pepsalia regularly, and who highly recommend its use. There is nothing else in the market which can in any way compare with Pepsalia as a digestive agent.

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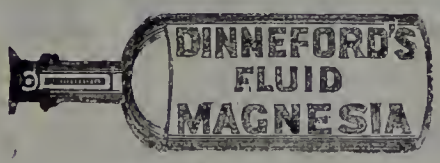

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44

Revise of Trade Terms.

Kindly Note that from Tuesday, December 1, 1891, the wholesale prices of Guy's Tonic and Guy's Fruit Pills will be advanced. We announce the fact here as an explanation to those who purchase through the usual distributing houses, and therefore have not been advised by us direct.

We Would Add that the merits of these remedies for the simple treatment of Indigestion, Sluggish Liver, and Nervousness have won for them a place in the family medicine-chest, and we have now arranged a largely-extended advertising policy to make their value even more widely known.

We Quote an Opinion from the Trade. Writing on Nov. 4, Mr. Llewellyn Williams, Chemist, New Buckenham, states: "I shall always have much pleasure in keeping your preparations prominently before my customers, as they invariably give satisfaction."

Proprietors—Guy's Tonic Company, 4 Ludgate Circus, London, E.C.

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Its purely vegetable origin renders it a far more agreeable remedy than the animal ferments now in use.

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Absolute Therapeutic Efficacy, Purity, & Uniformity.

Vide **Press** :—

Lancet, June 25, 1891; *Medical Press and Circular*, May 6, 1891; *Edinburgh Med. Journal*, September, 1891; *Prov. Medical Journal*, February and August, 1891; *Medical Annual*, 1891; *Chemist and Druggist*, August 1, 1891; *British and Colonial Druggist*, September 18, 1891.

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SEQUAH'S INSTANT RELIEF

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Samples Free. **TIMBURY'S** Samples Free.

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EUCALYPTUS CITRIODORA OIL,

Eucalyptus Maculata, var. Citriodora.

Pronounced by Medical Men to be a certain Preventive and Remedy for Influenza, also Colds, Coughs, and all Germ Diseases. Distilled from the leaves of the Citron-scented Eucalyptus.

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HAWLEY'S COUNTER ADJUNCTS

EFFERVESCING GRAN. PREPARATIONS.

In 4-oz. and 6 oz. bottles, with Chemist's name and address.

[2]

	4 oz.	6 oz.
Antipyrin	17/	24/
Bismuth, Pepsine, and Iron	19	25/
Bromide of Sodium	7/	10/
Carbonate of Lithia	7 6	10
Carlsbad Salts	5 6	8/
Citrate of Caffeine	9	12/
Citrate of Lithia	7/6	10
Citrate of Potash	6 6	9/6
Hydrobromate of Caffeine	9	12/
Salicylate of Lithia	7 6	10/
Vichy Salt	5/6	8/

In 6 doz. quantities, less in price.

1/-

EXTRACT OF CUCUMBER AND GLYCERINE.

In 2-oz. and 4 oz. bottles, wrapped, with Chemist's name and address.

1/ size .. .. 6 6 dozen
/6 „ .. .. 3 6 „

6d.

HERB BEER EXTRACT

4 oz. size, 3/, 3-oz size, 2/9 per doz.

MENTHOL CONES

Dome shaped. In Boxwood (3/6 and 7/ doz.), Ebony, and Vegetable Ivory.

MONASTERY OIL.

Long Bottles. 7/ doz., 12 doz. 6/.
Artistic Label for Chemist's own name.

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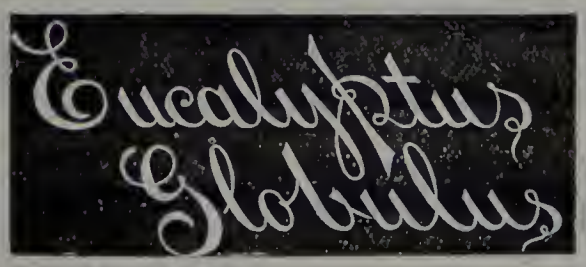
LIVERPOOL: EVANS, SONS & CO. MONTREAL: EVANS AND SONS (LIM.)



The undersigned call the attention of Medical Men and Pharmacists to the superior nature of their

Pure Oil of Eucalyptus Globulus,

distilled by them from leaves of Blue Gum trees cultivated in California. It should be noted that the reputation of Eucalyptus Oil is solely based upon the virtues of the Globulus variety; but very little of this now comes into the market from Australia, because it can only be produced there at from 15s. to 20s. per lb.

The DOWNIE B. I. P. CO. have extensive forests of Blue Gum trees in California, grown from Australian E. GLOBULUS seeds. The leaves of these trees are used for manufacturing an aqueous extract, as a boiler-incrustation preventive, and the company have lately perfected the means for collecting the Essential Oil. This Oil is of great purity, is unmixed with kindred bodies, and contains the full percentage of Eucalyptol. Since it is obtained as a by-product, the manufacturers place it on the market at a price which in other circumstances would be impossible.

Please specify "DOWNIE'S" in ordering through any Wholesale House, as there are many adulterated and worthless varieties in the market.

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MANUFACTURING CHEMISTS, WHOLESALE AND EXPORT DRUG MERCHANTS,

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Manufacturers of all Pharmaceutical Preparations on the best and most improved principles. Quotations on Application.

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Importers of Cod Liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essence; Carmine; Aniline Dyes; Bees' Wax, &c., &c.

Special Agents for Sicilian Sublimed Sulphur in 2-cwt. bags, and Rolled Sulphur in 3-cwt. casks. Most Favourable Quotations can be given to large Wholesale Dealers on application.

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Many persons, seeing the words "MICROBE KILLER," have been led to believe that it is a Disinfectant for External use only. WILLIAM RADAM'S "MICROBE KILLER" is a powerful Medicine, that Kills the Germs of Disease. It is taken internally, and applied externally, as the case may require, and attacks and kills the Microbes, which are the direct cause of disease, thereby thoroughly cleansing the blood, and giving tone to the whole system. In short, it restores to a healthy condition all the organs of the body, being composed of pure water, charged with powerful Germ. Destroying Gases. It is almost as pleasant to drink as clear spring water

IT IS NEITHER POISONOUS NOR INJURIOUS

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SAMPLES AND PRICES ON APPLICATION.

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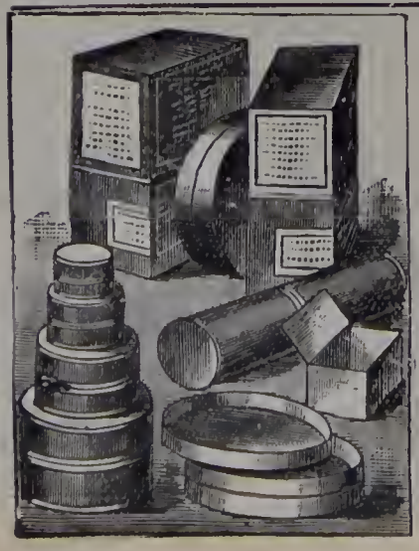

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Makers of best class of Violet Powder Boxes, and high-class goods of every description for Perfumery, &c.

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STEAM WORKS, 2 PRINTER'S BUILDINGS. [2]

The Chemist and Druggist SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, DEC. 12, 1891.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

Advertisements for this Supplement MUST be received at the Office by 5 o'clock p.m. on Thursdays.

CHEMISTS' TRANSFERS.

MESSRS ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**LONDON, E.**—Good-class Retail and Dispensing; returns this year about £1,000, with *profits considerably above the average*; well-fitted shop, and good stock; large house attached; about £850 required.

2.—**LONDON, S.E.**—Good ready-money locality; Retail and Family Business; returns average £920 yearly, *with good profits*; business capable of being much increased; large house and good premises; about £800.

3.—**LONDON, W.C.**—Retail and Dispensing, with good Family connection; returns about £500 yearly; *very profitable*; large house attached; well-fitted shop, and good stock; about £200 required.

4.—**LONDON, N.W.**—Main road; good ready-money locality; Retail and Dispensing; returns about £500 yearly; well-fitted shop and good stock; good house attached, about £400 required.

5.—**HOME COUNTY.**—Good locality; Mixed Business; old-established concern; situate in a first-rate position; returns between £1,200 and £1,300 yearly; good house and commodious premises; terms, small premium and valuation.

6.—**SOUTH OF ENGLAND.**—Fashionable town; good-class Dispensing Business; returns £2,000; handsome shop, and good stock; large house, on lease; about £2,000 required; full particulars on receipt of reference.

7.—**YORKSHIRE.**—Light Retail and Prescribing Business; all cash; returns £700 yearly; situate in a prominent position; handsomely-fitted shop and good stock; very low rental; terms, valuation of stock and fixtures only.

8.—**SOUTH OF ENGLAND.**—Good-class Dispensing and Retail Business, established many years; returns £700 yearly, *with good profits*; large well-fitted shop, and good stock; about £575 required.

9.—**STAFFS.**—Good business town; Light Retail and Dispensing of good class; returns last year about £1,100; vendor will give a good personal introduction if wished; about £850 required.

10.—**MIDLANDS.**—Good residential locality; Retail and Dispensing Business of good class, with good family connection; returns last year £1,350, *good profits*; well-fitted shop, large house and garden; about £1,300 required.

11.—**DEVONSHIRE.**—Seaport town; Light Retail and Dispensing; returns £450 yearly, *with good profits*; good-size house: rent £35; small garden attached; about £450 required, or offer considered.

12.—**YORKSHIRE.**—Large town; Prescribing and Light Retail; returns over £400 yearly; well-fitted shop and good stock; about £350 required.

13.—**ESSEX.**—Old-established Mixed Business; returns nearly £1,600, *with good profits*; vendor having other engagements will arrange easy terms of payment; small premium and valuation only.

14.—**SOUTH COAST.**—Fashionable town; good-class Retail and Dispensing Business; returns nearly £500 yearly; convenient house; special reasons for sale; offer wanted.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—*Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.*

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

MESSRS. ORRIDGE & Co. Register Vacancies for Situations FREE OF CHARGE.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

SALES BY AUCTION.

FOR SALE by Auction, at 32 High Street, Bristol, on Thursday, Dec. 17, at 11 o'clock, the whole of the handsome Fixtures, Fittings, and Utensils belonging to business of late Mr. Burdge (formerly Ponting), including oak and mahogany Wall Fixtures; mahogany-topped Counter, glass cases in front; handsome Dispensing Counter, glass cases in front; two large gold-capped Specie Jars; mahogany Stands; splendid copper Still, with pewter worm, in excellent working order. On view any day before sale.

IN BANKRUPTCY.

NO. 1 STOW HILL, NEWPORT.—Sale of Chemists and Druggists' Stock and Fittings.—Mr. A. R. Bear has received instructions from the Trustee (O. B. Cuville, Esq.) to Sell by Public Auction at the above address, on Tuesday next, December 15, 1891, the whole of the Chemists and Druggists' Stock, the property of J. A. Seys, a Bankrupt, comprising a large Stock of Tinctures, Drugs, Varnish, Paints, Oils, Vinegar, Petroleum, Benzoline, Soaps, Perfumes, Pomades, Brushes, Combs, Patent and Homœopathic Medicines, Trusses, Belts, Bed Pans, Feeding Cups and Bottles, Sponges, Filters, Chest Protectors, Respirators, Sweets, &c., Wines, Spirits, Cigars and Pipes, Lemonade, Seltzer, and Potash Waters. Show-cases, Counters, and Fittings, consisting of: four Specie Jars, four Show-bottles, six Show-cases, Cigar-case, two Mahogany Top Counters, Shop Fittings, 200 Drawers, Centre Show-stand, Scales and Weights, Pestles and Mortars, Iron Bottle-rack, 76 large Gilt-top Bottles, 50 White Ointment Pots, over 300 Stoppered Bottles, Gas Chandelier and Brackets, also the Prescription Books for twenty years, the Book Debts amounting to £55 or thereabouts, and the unexpired term on the Wine and Spirit Licence. The Stock will be on view on Monday, December 14, from 10 o'clock. Sale, Tuesday at 11 o'clock.

TO LET.

MAIN ROAD.—Large Shop and House, plate-glass front, suitable for a Chemist or almost any business; possession at once; rent £55. Apply to Messrs. Salter, Rex & Co., Land Agents, 311 Kentish Town Road, N.W.

TO CHEMISTS.—Real chance. Shop (6 rooms and garden) in main High Street, Poplar, busy thriving district; for last 21 years occupied by doctor for dispensing; to let, with possession, on January 1 next; rent £42 on lease; no premium required; fixtures at a bargain; owner will put in new handsome plate-glass shop-front; can arrange to dispense for the doctor; this is genuine and should be seen at once. Mr. Liley, Haling Park Cottage, Croydon.

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ADVERTISER wants to meet with a party with capital to bring out a new asthma, influenza, and cough remedy. Address, "Asthma," care of C. Mitchell & Co., 12 & 13 Red Lion Court, Fleet Street, E.C.

FOR SALE.

THE GENERAL APOTHECARIES' COMPANY have for disposal a quantity of Retail Fixtures and Fittings, including Mahogany Dispensing-Counters, Drawers, Show-cases, Bevelled Glass Shelves, &c., recently removed from their late Retail City Branch. Apply, "Manager," 49 Berners Street, Oxford Street, W.

F. J. BRETT,

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References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

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F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

BIRMINGHAM.—Commanding handsome suburban shop; good house; fine chance for pushing man; price about £500

LIVERPOOL.—Branch Retail; returns £7 per week; good position for shipping trade: price £250.

LONDON, N.—Old-established Retail; has done £2,000; now £500; neglected; no new opposition; good house, recently redecorated at a cost of £150; low rent; long lease; price £400.

DURHAM CO.—Good-class Retail; in best position of busy town; returns £650; price £550.

STAFFS.—Good-class Family Retail, in pretty town; returns £830; changed hands once in 40 years; price £650.

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Established 1870.

SPECIAL NOTICE.

VENDORS are particularly requested to note that in placing Businesses in our hands for disposal, they are not required to sign any unusual agreement. Our forms for particulars and terms (which have always been the same) may be had on application.

VALUATIONS and TRANSFERS conducted in any part of the United Kingdom. Twenty years' practical experience.

NO CHARGE TO PURCHASERS.

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BOURNEMOUTH.—Unopposed Mixed Retail, Dispensing, and Prescribing Business, returning £900, and steadily increasing; good house; double-fronted, well fitted and stocked shop; price £650, or offer.

SOMERSET—Good Market town; old established Retail, Dispensing, and Prescribing Business; returns £650; rent £30; 9-roomed house; former owner retired; price £450; heavily stocked.

KENT COAST.—Retail, Dispensing, and Prescribing Business; returns £1,000; net profit £400; excellent position in centre of town; very handsome shop and premises; good house; price £800.

HOME COUNTY.—Unopposed Mixed Retail and Prescribing Business; returns £800; net profit £250; rent £30; good house and garden shop is well fitted and stocked; price £500.

SUFFOLK.—Unopposed Light Retail, Dispensing, and Prescribing Business; returns £700; net profit £250, rent £31; shop is well fitted in modern style; price £475; recommended.

WEST OF ENGLAND.—Retail, Dispensing, and Agricultural Trade; returns £950; net profit £350; 10-roomed house with large garden; same hands many years; price £600.

MANCHESTER.—A thoroughly reliable Retail and Dispensing Business; returns £500; net profit £200; low rent; good house; selling to take larger trade; price £325.

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A MIXED Country Business for immediate disposal; rent low; good returns. Apply, J., c/o Evans, Gadd & Co., Exeter.

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RETAIL and Dispensing, with Agricultural; cathedral town, West of England; returns about £250; price £175; principals only. E. T., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

KENT COAST.—Immediate possession; rising summer resort; best position in the town; a sound business; good opening for a young man; price £350. Address, W., c/o C. Griffith, Chemist, Canterbury.

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SOMERSET.—Old-established Retail, Dispensing, and Prescribing trade; returns £800; price £600, handsome pharmacy and good house.

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WEST OF ENGLAND (fashionable health resort). Old-established Retail and Dispensing; returns £1,200; price £1,200.

SURREY.—Light Retail and Dispensing, returns £800; price £650; good house; handsome Pharmacy; agency pays rent.

NORFOLK.—Good-class Family and Dispensing; returns £850; price £700; long lease at a low rent; good house.

HOME COUNTY.—Light Retail and Dispensing; returns £400; low rent; price £320, large and convenient house, with nice garden.

SUSSEX.—Old-established Retail and Dispensing, with good sale of own specialities; returns £600; price £450; good house and garden.

KENT.—Family and Dispensing trade, with Post-Office; returns over £800; price £600; large house and garden.

DEVON.—Old-established Retail and Dispensing, with good sale of own Specialities; returns £600, price £450; good house and garden.

BUCKS.—Light Retail and Dispensing; very low rent, returns £450; price £350; good house and garden, worth attention.

MIDLANDS.—Retail, Dispensing and Prescribing; returns £500; price £200; double-fronted handsome pharmacy.

CORNWALL.—Retail and Dispensing Business, with general Mixed business attached; returns £3,600; steadily increasing; large house, low rent; price about £1,500, satisfactory reasons for selling.

CHESHIRE.—Old-established country trade; returns £1,000; price, valuation only; large and convenient house; rent £40.

HANTS.—Light Retail and Dispensing; returns £400, and increasing; large and convenient premises, held on long lease at a very low rental; price £200

LONDON, N. (Main Road).—Good-class Retail and Dispensing; returns £400, and can be doubled with ordinary attention; price £200 to a quick buyer.

LONDON, S.E.—Retail and Prescribing trade; unopposed position; returns £500; price £400; rent £40; good house, &c.

LONDON, N.—Good-class Family Business; Retail and Dispensing; returns about £850 yearly; handsome shop and good stock; price £600.

HANTS.—Light Retail and Dispensing; returns £700, and increasing; large, convenient premises, nice garden; low rent; price £450.

LONDON, S.—Good-class Retail and Dispensing trade; returns £500; low rent; price £350; capital position in marketing thoroughfare.

NO CHARGE TO PURCHASERS.

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A RETAIL Chemist's Business in country town, the centre of a large Agricultural district; good opening for one acquainted with agricultural trade; superior fittings; rent £32; price moderate. Address, I. W. Plummer, Solicitor, Cockermouth.

SOUTHPORT.—A small Business in a most healthy suburb; suitable for one not dependent on business, or could be greatly increased by an energetic young man; a good house attached. 141/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR disposal, the Business of the late G. B. Howorth, Irthlingboro', Northampton; returns between £7 and £8 per week; handsome fittings; well assorted stock; no other Druggist, rent £16 10s. per annum; price £150. Address, Howorth & Parkin, Doncaster.

THOMAS TOMLINSON & SON, 9 New Cannon Street, Manchester, have a pretty little and very profitable Pharmacy for disposal in a nice suburb of Manchester for about £330; nothing but select drug trade; no charge to purchaser for introduction.

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IMMEDIATE disposal, an old-established Chemist and Druggist's Business, in the leading thoroughfare of Liverpool, consulting-room and large house attached; rent £[illegible]0 per annum; for goodwill, fixtures, &c., a very moderate price for ready cash; satisfactory reasons given for selling. Apply, 222 Brook Road, Liverpool.

IN MIDLANDS.—A good country Business, with Grocery attached; returns nearly £700 under late owner; nearest opposition 5 miles; good house, garden, &c., rent low, no goodwill; inspection invited; well stocked but can be reduced to suit purchaser. Address, "Dens," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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GUERNSEY, Channel Islands.—Old-established Retail, Dispensing, and Prescribing Business in a thickly-populated neighbourhood; returns £400; convenient house, good store-room; rental £38; price to an immediate purchaser £250; ill-health only cause of disposal; particulars on application. J., 10 Vowler Street, Walworth, London, S.E.

WEST OF ENGLAND. Unopposed good-class Retail, Dispensing, and Prescribing Business; returns about £500, at full prices, steadily increasing; shop is well fitted and stocked; house is fitted up with every modern convenience, 10 rooms, and an acre of garden (flower, fruit, and vegetable); rent £28, worth £40; long lease; price £450. G. W. O., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate Disposal; death of Proprietor; genuine old-established Business; no reasonable cash offer refused. Apply, Mrs. Jones, 104 Harvest Lane, Sheffield.

HAMPSHIRE.—Close to Bournemouth; owing to death of late proprietor; a small General Dispensing and Retail Business; comfortable house; good garden; about £200 required. Apply to Mr. A. Jolliffe, Arcade Chambers, Bournemouth.

LONDON, Surrey Side.—A well-fitted and contrived Pharmacy, Prescribing, Dispensing, and Light Retail; splendid unopposed position; trade done very profitable, returns about £1,000, and increasing; good house, bold frontage, price £500. Address, "Medico," 3 Avenue Road, Bow, E.

OLDHAM. An old-established Chemist's Business, in a main thoroughfare, doing over £400 a year, which might easily be increased to £600 or £800 by a registered man; valuation only; good house, rent £45; profits from post-office alone £70 a year; satisfactory reasons. Apply to Thomas Tomlinson & Son, 9 New Cannon Street, Manchester.

PROFITABLE Light Retail and Dispensing; main London road in pleasant and increasing suburb; fine shop, well fitted and capitally stocked, trade increasing; well worth attention; reason for disposal entirely apart from business; convenient house, on lease; price about £725. "Veritas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, N. Retail, Dispensing, and good Prescribing; old established and in busy thoroughfare, doing now £10 weekly, with good profits; appointment worth £90 a year attached; large well-fitted shop and good stock; reason for sale owner going abroad, price £400. Address, "Manna," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

S.W.—RETAIL and Prescribing Business; main thoroughfare; populous locality; handsome fitted shop, well stocked; returns about £450; could be immediately increased by an energetic man; can be purchased for £100, ill-health cause of sale; trial allowed; large convenient house. "Camphor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRMINGHAM suburbs; thickly populated middle-class district; Retail and Prescribing; good prices; few patents; excellent house; returns nearly £500, with exceptional profit; Vendor attends medical school, and absent most part day, cannot give proper attention; would much improve with full supervision; positively no opposition, and great scope. "Medicus," Wyleys (Limited), Birmingham.

FOR sale by private treaty, two old-established prosperous Drug and Drysaltery Businesses, working admirably in conjunction. Lot 1. Total ingoing, about £350; returns 1890, £743, all retail; rent £20. Lot 2. Total ingoing, £5 0; returns 1890, £1,308, all retail; rent £40. Both are in splendid positions, and would be sold separately; offers considered. Apply, Goodeve & Evans, Cannon Street, Birmingham.

BUSINESSES WANTED.

GENUINE Dispensing, Retail, and Prescribing Business; London preferred; returning from £600 to £800; in good position; cash ready, no agents; state if trial allowed. Address, R. M., 108 Harmood Street, N.W.

WANTED, in Midland or Northern county, a genuine Family and Agricultural or Dispensing and Retail Business returning about £1,000 to £1,500; cash ready; must bear thorough investigation; a partnership in a sound concern would be entertained. F., c/o Messrs. Wright, Layman & Umney, Southwark Street, London.

APPRENTICESHIP.

APPRENTICE (indoors).—T. Asbury, Dispensing Chemist, Matlock, Derbyshire, has a vacancy for a gentlemanly youth who has passed the Preliminary exam. (or equivalent); first-class Dispensing and Retail business; light hours, comfortable home; moderate premium.

SITUATIONS OPEN.

WANTED, after Christmas, Assistant, outdoors, about 22; reliable Dispenser. Apply, with particulars, Blackwell, Hayes & Co., Birmingham.

WANTED, a good Counterman for a Cash business; aged 23 to 25; outdoors; no Sunday duty. Apply, W. H. Hooper, 59 High St., Peckham, S.E.

OUTDOORS, for high-class Store trade; First Counterman; tall; gentlemanly appearance and address. Usual particulars and c.d.v. to Wand, Chemist, Leicester.

ASSISTANT, about 22 or 23, after Christmas; qualified preferred; quick and accurate Dispenser. Usual particulars to C. P., 72 Sandgate Road, Folkestone.

JUNIOR Assistant wanted; outdoors; must have good references. State full particulars, age, height, and salary required, Markham & Co., Market Place, Darlington.

PILL-COATERS, thoroughly experienced and reliable; liberal salary. Apply by letter only, "Thrums," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR, at once, about 21, for Mixed business with small Wholesale; must be obliging and willing; state age, height, salary (indoors), with photo (to be returned) and references. Address, E. Spurway, Chemist, Kidderminster.

EXPERIENCED Assistant, as indoor Senior; active; unmarried; good Counterman, accustomed to Country trade, and seeking permanency; abstainer preferred; unexceptionable references indispensable. Apply, stating age, height, references, experience, salary required, when disengaged, &c., to M. P. S., 11 Queen Square, Wolverhampton. Applications not answered within three days declined.

AT ONCE; a qualified Assistant for a Mixed Country Business; outdoors; aged 25 to 30; exceptionally good references required. Gibson, Chemist, Burton-on-Trent.

AT once, an Assistant; must be quick and accurate Dispenser. Apply, stating age, height, salary, &c., with photo (to be returned), to J. G. Sangster, Chemist, Southsea.

J. C. POTTAGE, Homœopathic Chemist, 117 Princes Street, Edinburgh, is in want of an active and obliging Assistant; outdoors; state salary, with references.

AN Assistant; part time 3 days a week, from 1 p.m. till 10 p.m.; near Notting Hill Gate Station; state salary. "Chemist," c/o Messrs. Sauger & Sons, 489 Oxford Street, W.

WANTED at Evans & James', Chemists, Llanelly, South Wales, an Assistant not under 22; able to speak Welsh; enclose photo, and state age, height, and salary required.

WANTED, for a provincial town in Mexico, a Spanish-speaking Assistant; three years engagement; fair terms. Address, B. W. J., care of Street & Co., 30 Cornhill, E.C.

WANTED, a qualified Assistant (indoors), must have good references. State age, height, and salary required, and when disengaged. Vickerman, Bewdley, Worcestershire.

WANTED, by January 1, qualified Assistant, about 24, accustomed to good class business. Apply, enclosing carte (to be returned), with full particulars, to Cruse & Co., Southsea.

WANTED, immediately, a Junior Assistant (outdoors). Apply, stating when disengaged and full particulars, to D. P. Roberts, Drug and Chemical Store, North End, Croydon.

SENIOR Assistant wanted; qualified, about 30; also good Junior; both indoors; three kept. Apply to Gould & Co., 456 Oxford Street, W. Letters not replied to in three days declined.

MANAGING Assistant, qualified, for Branch; must have good references, outdoors. State full particulars with application to "Alpha," c/o Evans & Co., 56 Hanover Street, Liverpool.

JUNIOR Assistant, at once; not under 20; accustomed to General Chemist's Retail and Dispensing business; outdoors. Apply, giving fullest particulars, to G. H. Lodge, Chemist, Rotherham.

AFTER Christmas.—Junior in Light Retail and Dispensing. Apply, with references, height, salary required, and carte, to Harold Mitchell, The Merton Pharmacy, South Wimbledon.

ASSISTANT, about 23, active and gentlemanly, wanted by 1st of next month, well up in dispensing. Apply, stating age, references, salary (outdoors), with photo, to J. Robinson & Co., Norwich.

WANTED, an energetic Assistant for the Drug counter, accustomed to high class business. Apply, enclosing c.d.v., references, and state salary expected, to Knoh & Co. (Lim.), Cork.

WANTED, an Assistant, first week in January; qualified; indoors. Apply, stating age, experience, salary, references, photo (to be returned), Manager, Apothecaries' Hall, 4 Colquitt Street, Liverpool.

REQUIRED, at once, a qualified Assistant of good experience; aged about 26. Apply, giving particulars as to salary and references, with photo (which will be returned), to Brookes, Chemist, Llandudno.

WANTED, for January 7, an Assistant, of gentlemanly manners and address (indoors); Minor qualification; London experience. Write, enclosing photo, W. R. Howard, 4 Napier Road, Kensington, W.

JUNIOR Assistant wanted (indoors); high-class Retail and Dispensing; hours short; no Sunday work; salary £35 to £40. Apply, with references, to "Alpha," care of Barron Harveys, Giltspur Street, London.

REQUIRED, after Christmas, a Junior accustomed to a good class of business, and able to dispense. Apply, stating usual particulars and enclosing carte, to Rickes & Tomlin, 2 Palace Avenue, Paignton, near Torquay.

WANTED, a Clerk to take charge of the Advertising Department of a Patent Medicine; must have had previous experience. Address, "Provincial," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE Drug Trade.—Required, an experienced Head Wet Counterman. Apply, with full particulars, salary required, &c., to "Wet Counter," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANCHESTER ROYAL INFIRMARY.—Junior Assistant Dispenser; Minor qualification; not over 30 years of age, and unmarried, salary £80 per annum; hours 8.30 to 6. Apply to General Superintendent.

WANTED, qualified Dispensing Assistant; tall, and of good address; aged about 23; also a Junior. Apply personally, if possible; if by letter, state full particulars, and enclose carte-de-visite. D., 80 Wigmore Street, W.

WANTED, an Assistant (Junior), indoors; one desiring a permanency preferred; aged about 24. State height, salary required, experience, and when disengaged, with references, to Dennis & Son, Chemists, Louth.

WANTED, immediately, Junior; aged about 20; good Country business, Senior also kept; board in, but room provided out of house; hours easy. Send portrait, and particulars in full, to James Tomlinson, Chelmsford, Essex.

WANTED, in a Manufacturing Chemist's office, a young man with some knowledge of the Wholesale trade and well up in Invoices, Posting, &c. State experience, age, salary, &c., to "Clericus," 5 Prospect Road, Snakes Lane, Woodford.

TWO Juniors, indoors, for first-class Cash business; also competent Counterman, outdoors, Kilburn. Apply, stating full particulars of experience, salary expected, &c., to J. H. Lewis, 22 and 24 Great Portland Street, W. Stockkeeper wanted.

ASSISTANT wanted, at once, for good Dispensing and Light Retail, with view to Partnership preferred, in which case must be able to invest £200 or £250. Apply to "Fides," care of Messrs. Evans, Lescher & Webb, 60 Bartholomew Close.

WANTED, an Assistant, with view to succession; no one need apply who has not at least £200 at command. For particulars, send qualification, salary required (outdoors), to L. B. S., 37 Gt. James Street, Bloomsbury, London, W.C.

WHOLESALE and Retail Druggist.—Wanted, a smart man, who thoroughly understands his business, as Counterman in the Retail and to make up Wholesale orders. State age, salary, and experience to C. M., 54 Villiers Terrace, Leeds.

FOR 5th January.—Assistant wanted; experienced in Retail and Dispensing; knowledge of Postal duties essential; aged 20 to 23. Apply, stating salary required and references, to X. X., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED an Assistant (outdoors), for a high-class cash business; accustomed to Dispensing; West of England; one seeking a permanency preferred. Address, with carte, and full particulars, H. J. Glen Helen, Loampit Hill, Lewisham, S.E.

WANTED, Assistant, Minor qualification, immediately, for Light Retail and Dispensing business; in order to save time applicants will please state full particulars as to age, salary, character, &c., and enclose c.d.v. B. Cowgill, Chemist, Barnsley.

WANTED, by the 27th, an Assistant, about 24, for Light Retail and Dispensing business, W.; must be competent and have good references. Apply, or write enclosing carte (which will be returned), T. Linay, 2 Fernhead Road, St. Peter's Park, W.

WANTED, an Assistant (outdoors); qualified; aged about 24; first week in January; of good address and business habits; accustomed to brisk Retail and Dispensing business. Apply, stating salary required, with references, to Greaves, Chemist, Canton, Cardiff.

AFTER Christmas.—Junior Assistant, accustomed to Dispensing; one just out of his time not objected to; opportunities for study. Apply, with photo, stating age, height, experience, and salary required, to Henry Peet, 97 Mount Pleasant, Liverpool.

GENEVA, SWITZERLAND.—Wanted, First Assistant, of good address and appearance, speaking French fluently; must be used to high-class international Dispensing business. Offers, with photo, to the Anglo-American Dispensary, 13 Rue des Allemands, Geneva.

TRAVELLER wanted for London and district; young man with a connection preferred; must have a thorough knowledge of Drugs, Chemicals, and Patents. Apply, by letter only, stating age, salary required, and experience, to Mr. Farries, 12 Coleman Street, City, E.C.

A PHARMACEUTICAL Student can have a comfortable home at a Chemist's within short distance from Bloomsbury Square, on payment of small sum towards board only; use of apartments, &c., in return for 2 or 3 hours' service in the evening. Address, H., 171 High Holborn.

JUNIOR Assistant, with good reference; salary not to exceed £25 year (indoors); must be decent writer and competent to take charge during temporary absence. J. K. Hobbs, 33 High Street, Harlesden, London, N.W. (near Willesden Junction, N.L. and L.N.W. Railways).

WANTED, first-class Assistant, qualified, with good all-round experience, capable of performing simple analyses and experienced in aërated-water making, for vacancy in large pharmacy in the East; liberal terms for a suitable man. By letter only, to Dakin Bros., 87a Leadenhall Street.

WANTED, on December 28 indoor Assistant, competent to take charge. Apply, personally, any time except Monday afternoon from 1 to 6, or by letter, with full particulars as to height, age, references, salary and photo (to be returned), W., 44 Hugh Street, Eccleston Square, Victoria, S.W.

MR. J. C. CHAS. PAYNE, M.P.S.I., has a vacancy for an Outdoor Junior Assistant, holding Irish or English Pharmaceutical qualification; must be a quick and experienced Dispenser, writing a good hand, and about 23 years of age. Apply, with reference and salary expected, to 18 Shaftesbury Square, Belfast.

A COMPETENT and reliable Assistant; qualified; good Salesman and Prescriber essential; liberal terms to a conscientious man desiring a permanency, eventually to take management. Apply personally (if by letter, particulars of experience, salary, age, height, photo) to Ralph Hall, 552 Kingsland Road.

AN Assistant (indoors); about 23 or 24 years of age; of good appearance and address, accustomed to a good-class Country trade; must be a quick and accurate Dispenser and good Counterman; hours of business short. Apply, enclosing carte-de-visite, if convenient, to John Meredith, Chemist and Wine Merchant, Brecon.

£104 PER ANNUM, with house, coal, and gas or furnished rooms with attendance, for qualified Manager of first-class Homœopathic business in a fashionable seaside resort; abstainer preferred; must be of gentlemanly address, and have good references. Address, S., c/o Southall Bros. & Barclay, Birmingham.

WANTED, Assistant (qualified) for Country business; store lines; must be young, energetic, and capable of holding manager's position if required; good prospects for suitable man. Address, stating age, references, and salary required (outdoors) to "Country," c/o C. Mitchell & Co., Red Lion Court, Fleet Street, London.

SOUTH LONDON.—Wanted, a qualified outdoor Assistant; industrious and obliging; character must bear strict investigation; state age, height, salary required, when disengaged, qualification, experience, and all necessary particulars; the sight of a photo would be helpful. J. W., c/o Messrs. Burgoyne & Co., 16 Coleman Street, E.C.

SITUATIONS WANTED

AS Junior; unqualified; outdoors; good stockkeeper. Apply to 66 Myddelton Street, Clerkenwell, E.C.

AS Part-time Junior (21), in London or Suburbs. D. N., 1 Kemble Road, Croydon.

EVENING Employment; January 11 (London). Herbert Dean, Market Deeping.

LOCUM-TENENS; qualified; good references. "Locum," Trinity Square, Llandudno.

WANTED, a situation as Manager or Traveller; 25 years' first-class experience; aged 40; married; 14 years last reference. Address, "Stating," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; qualified; aged 22. Arthur Bugden, 8 Fulham Place, Padlington Green.

AS Manager or Senior; aged 30; married; Minor. M., 32 Lichfield Street, Hanley, Staffs.

MANAGER or Locum-Tenens; qualified; reliable; 45. Williams, 70 Ledbury Road, W.

ASSISTANT; aged 24; good experience. Arundel, Kelly's Library, 6 Eagle Place, W.

MANAGER, or outdoor; permanency or Locum-Tenens. Davies, 100 Brixton Hill, London.

JUNIOR (23); qualified; tall; outdoors, and London preferred. Evans, Chemist, Pontardulais.

AS Junior or Improver; salary £20; country preferred; disengaged. Apply, Deighton, Bridgnorth.

JUNIOR: aged 21; in good-class business; London. Williams, Eithynduon, Mydrim, Carmarthen.

AS Dispenser to Surgeon; in or near Birmingham preferred. "Nux Vomica," Alvechurch, near Redditch.

LOCUM (27); varied experience; qualified; good references. "Minor," 33 Grand Parade, Brighton.

ASSISTANT: outdoors; 26; permanency; good experience. "Statim," 61 Northgate Street, Chester.

MINOR qualification; 5 years' experience; good reference; about Yorkshire. "Chemicus," Ouseburn, York.

TEMPORARY or Locum; qualified; disengaged. A. Harries, 43 Lordswood Road, Harborne, Birmingham.

SOUTH AFRICA.—Commissions wanted by Traveller, with large business connection. Griffith, Leamington.

ASSISTANT: good experience and references; outdoors preferred, not essential. Medical Hall, Sutton Coldfield.

AS Manager or Dispenser; qualified; aged 35; married. "Chemist," 13 St. Helen's Road, Daubhill, Bolton-le-Moor.

DISPENSER or Assistant to Surgeon. "Dispenser," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Invoice or Ledger Clerk, or as Traveller: aged 22; 8 years' experience. "Exonian," 30 Chestnut Street, Leicester.

AS Assistant or Manager: West-end experience; disengaged; qualified; aged 32. H. W., 127 High Street, Ramsgate.

AS Junior (20); 4½ years' experience; good references; disengaged December 31. Woodward, 25 The Walk, Norwich.

JUNIOR Assistant (20); 5 years' experience; disengaged now; good references. W., 43 Lynette Avenue, Clapham, S.W.

DISPENSER, afternoon or evening, by qualified Chemist; good references. B., 89 Bishopsgate Street Without, E.C.

MANAGER or Dispenser; qualified; experienced; references. Ellingham, 4 Great James Street, Bedford Row.

A YOUNG Man, 6 years at the business, wants a situation as Junior; well up in Dispensing. "Junior," 12 Grafton Street, Dublin.

ASSISTANT; 7½ years' experience (three London); good references: North preferred. Thwaites, Daisy Cottage, Whitburn.

MANAGER, Traveller, or Outdoor Assistant; 4 years in present situation; aged 34; married. E. J. Walker, 70 Beckenham Road, Beckenham.

AS Temporary, by day, week, or month: well recommended by last employers. "Qualified," 1 Lincoln Terrace, Brackenbury Road, East End, Finchley.

JANUARY.—As Branch Manager; married; experienced in Dispensing, Prescribing, and Teeth-extracting. A., 2 Cross Street, Swinton, Lancs.

LOCUM-TENENS or Manager; qualified; highest references; disengaged December 18th until February 1, 1892. "Chemist," Marine House, Clevedon.

CHEMISTS' Books regularly kept by experienced Bookkeeper. "Mackenzie," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (25), experienced, desires re-engagement Christmas; Wholesale preferred; good references. "Radix," 6 Sidney Terrace, Rochester.

ASSISTANT or Branch Manager; temporary or permanent; aged 24; good experience. "Sanitas," 42 Crimscott Street, Bermondsey, S.E.

AS Manager; qualified; well recommended from last employer; a permanent situation desired. "Mace," 3 Westgrove Terrace, Blackheath Hill.

JUNIOR (24); unqualified; accustomed to good business; can dispense; outdoors preferred. Apply, "Statim," 5 Spooner Road, Broomhill, Sheffield.

MANAGER or Assistant; outdoors; 4 years in present situation; aged 39; Minor qualification. "Gentian," c/o Mr. Gadsby, 31 King Street, Manchester.

YOUNG Man, good appearance, speaks English and French, wishes engagement as Improver to Dentist; 3 years' experience; London preferred. Miss C. Ewerby, Sleaford, Lincoln.

ASSISTANT (outdoors); experienced Dispenser and Prescriber; aged 30; height 6 ft.; accustomed to good-class trade; extractor. W. R. (shop entrance), 5 The Broadway, St. Margaret's, Twickenham.

TRAVELLER.—A gentleman, fully qualified, having left Retail, desires position as Traveller; excellent references; tall, energetic, well-educated; aged 36; small salary to commence. "Energy," care of Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ABROAD: aged 23; eight years' varied experience; good address and appearance; excellent references; unqualified; good counterman and competent; speaking little French; healthy; agreeable to 3 or 4 years' engagement; immediately; Africa or the East preferred. Address, X. Y. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AN Italian, aged 26, single, qualified Chemist, having diploma from Italian University, and many years in the employment of English firms in Milan and elsewhere seeks an engagement in first-class Chemist's Retail establishment in London; no salary required, the object being to acquire proficiency in the English language; good references. 141 15. Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—December 12, 1891.

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Alexandra, Wood Top Corks	per doz.	2/10	3/6	—	3/-	3/8	—
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The following are sent out with Black Fittings unless ordered to the contrary.

Each in a Box		White Fittings			Black Fittings		
Alexandra, Earthenware Caps	per doz.	—	7/-	9/6	—	7/6	10/6
Alexandra, Glass Screw Stoppers	,,	—	7/-	9/6	—	7/6	10/6
Export, Earthenware Caps	,,	—	6/6	—	—	7/-	—
Export, Glass Screw Stoppers	,,	—	7/-	—	—	7/6	—

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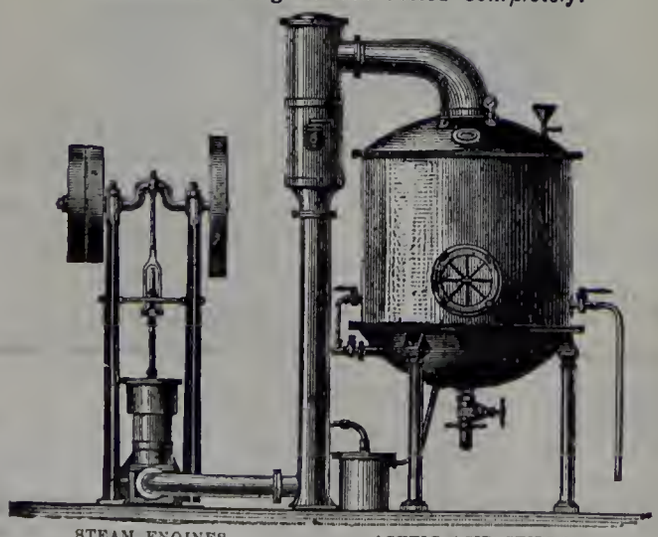

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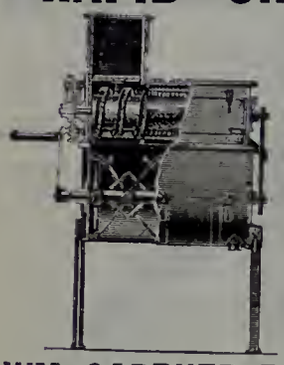

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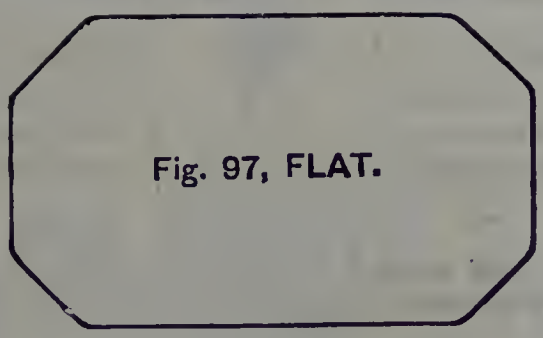
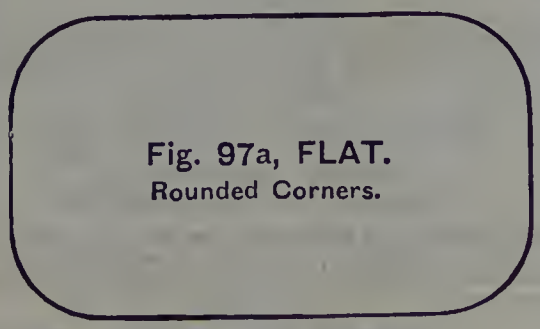
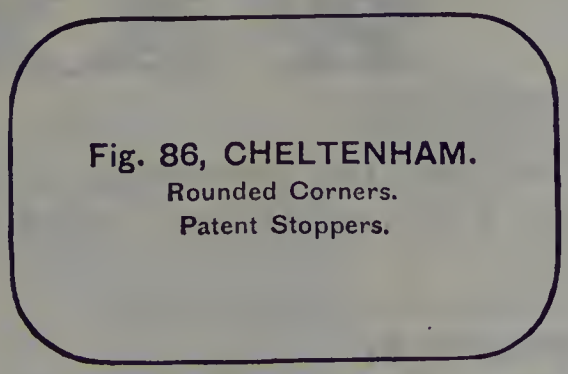
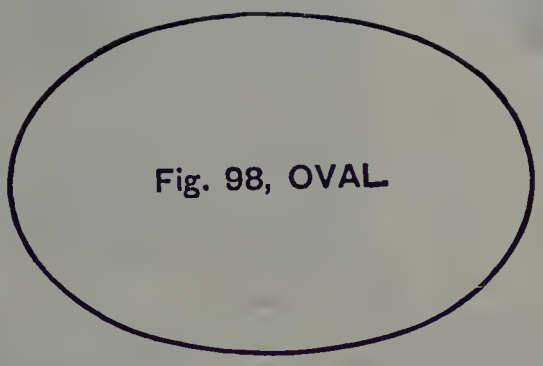
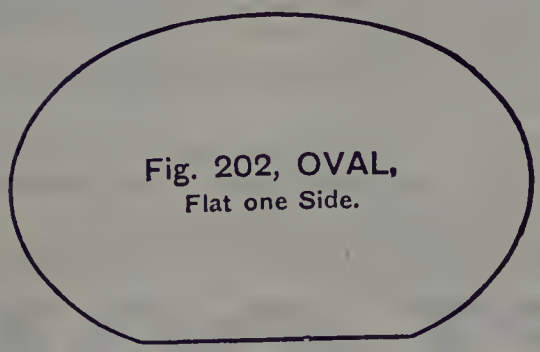


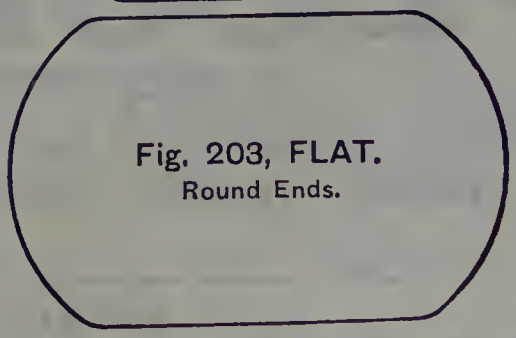




For Prices in Crates, see Quarterly Price-Current, page 44.







Special Quotations for Large Quantities.

For White Flint and all other Bottles, see Quarterly Price-Current, pages 44 to 48.

	2	3	4	6	8	10	12	16	20	Ounce.
Fig. 97	10/-	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/-	Best, per gross.
"	7/9	8/6	8/6	10/-	10/-	13/3	14/9	20/-	25/6	2nd, "
Fig. 97a	10/-	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/-	Best, "
"	8/-	9/-	9/-	10/6	10/6	14/3	15/9	21/6	26/6	2nd, "
Fig. 98	10/-	11/6	11/6	12/9	12/9	20/6	20/6	23/6	30/-	Best, "
"	7/9	8/6	8/6	10/-	10/-	13/3	14/9	20/-	25/6	2nd, "
Fig. 202	...	...	11/6	12/9	12/9	...	...	...	...	Best, "
Fig. 203	...	11/6	11/6	12/9	12/9	20/6	20/6	23/6	...	Best, "
Fig. 86	...	...	...	20/-	20/-	...	...	...	...	Best, "

USUAL DISCOUNT.

S. MAW, SON & THOMPSON, LONDON.

THE

"PREMIER" WATER BOTTLE

(REGISTERED).

This Water Bottle is made of the best quality rubber, the cup being moulded, and, as will be seen from above cut, so arranged that the top of the brass neck is quite flush with the bottom of the funnel, thus ensuring the prompt and complete entrance of the water into the bottle, and also preventing "wobbling."

Made in 12 sizes varying from 8 by 6 to 16 by 12, and obtainable from all the usual Wholesale Houses.

Sole Manufacturers—

DAVID MOSELEY & SONS,

14 Aldermanbury Avenue, London, E.C.

Ardwick, MANCHESTER; and 57 Miller Street, GLASGOW.

VINCENT WOOD'S

WORLD-KNOWN SUPPORTING

BELTS, BRACES,

AND

CHEST PROTECTORS.

BEWARE OF WORTHLESS FOREIGN IMITATORS.

SUPPORT HOME INDUSTRIES.

The Oldest and Largest Makers on Scientific Principles in the Trade.

Price of ACME 'CUIRA BRACE as sketch.
Ladies', 48/ per doz.
Misses', 45 „
Girls', 42 „

This Brace is well advertised, and for an order of 3 dozen assorted, will supply a handsome model under a glass case, fitted; also Circulars and Show Cards free of charge, or Show Cards with smaller assorted quantities.

3 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON, E.C.

Or from all Wholesale Houses.

Telegrams—"ACME LONDON."

Makers of Trusses, Elastic Hosiery, Ear Caps (Patented), Obstetric Binders, Belts, Chest Protectors, &c.

FLOOR WAX

(THE ORIGINAL AMERICAN),

For Halls, Ball-Rooms, &c.; does not soil the garments; easily and quickly applied. Put up in 1-lb. packages, price 2/ per lb.

FOR SALE IN ENGLAND BY

WYLEYS LIMITED, COVENTRY.

TIDMAN'S SPECIALITIES.

Readily Saleable by all Chemists and Druggists. 5 per cent. Discount for Cash.

£5 orders carriage paid.	Retail at	Price to the Trade.
Tidman's Sea Salt, in Cardboard Packets	1½d.	per grose 12/3
„ „ Linen Bags	1d.	„ 8/3
„ „ 3-lb. Boxes	8d.	per doz. 5/4
„ „ 7-lb. „	1/2	„ 10/9
„ „ 14 lb. „	2/3	„ 19/9
Tidman's Sea Soap, Tablets, in Boxes of 1 doz.	6d.	„ 3/6
„ Tooth Soap „ „	6d.	„ 3/6
„ Carbolic Tooth Powder „	6d.	„ 3/6
„ Baking Powder, Packets „	1d.	per gross 4/6
„ „ „ ½ lb. Tins „	4d.	per doz. 2/4
„ „ „ ½-lb. „ „	8d.	„ 4/6
„ Cod Liver Oil, 12-oz. Bottles, in Cartoons	1/0	„ 7 0
„ Cucumber and Glycerine „	6d.	„ 3/6
„ „ „ „	1/0	„ 7/0
„ Cucumber and Glycerine Soap, Boxes 1 doz.	4d.	„ 2/0
„ Carbolic Disinfecting Powder, in Tins	6d	„ 3/6
Corn Solvent, 1 doz. on Card	4d.	„ 2/4
Washing Gloves, No. 1 Turco } various other	4d. per doz. pair	2/0
„ „ The Derby Turco } kinds as reqd.	6d. „ „	2/6

£5 orders carriage paid.	Retail at	Price to the Trade.
Tidman's Cucumber and Glycerine Jelly	6d.	per doz. 3/6
Wesley's Petroleum Pomade	6d.	„ 3 0
„ „ „	1/0	„ 6 0
„ Carbolic Toilet Soap Tablets, in tinfoil	2d.	„ 1/6
„ Coal Tar Soap „ „	2d.	„ 1/6
„ Carpet Soap	6d.	„ 3/6
„ Furniture Polish	6d.	„ 3 0
„ „ „	1/0	„ 6 0
„ Linen Glaze, in envelopes	1d.	„ 6d.
„ „ „ „	3d.	„ 1/6
„ „ „ in tins	6d.	„ 3/0
„ Sewing Machine Oil	6d.	„ 3 3
White's Glycerine Jelly, in Screw Cap Bottles	3d.	„ 1/10
„ „ „ „ „	6d.	„ 3/6
„ „ „ „ „	1 0	„ 7/0
„ Glycerine and Honey Jelly „ „	6d.	„ 3/6
„ „ „ „	1/0	„ 7/0
Glycerine (Pure) 2 oz. each Bottle, in Cartoon	4d.	„ 2/7
„ „ 4 oz. „ „	6d.	„ 3/9

TIDMAN & SON, 19 & 21 WILSON STREET, LONDON, E.C.

CHRISTMAS NOVELTIES.

A LARGE ASSORTMENT ON VIEW AT

G. VOGT & CO.'S,

28 WILSON STREET, FINSBURY, E.C.

N.B.—If you cannot favour us with a call, on receipt of postal order or cheque for 10*s.*, £1, £2, £5, or upwards, we will send value in a varied assortment of absolutely unique novelties in fancy goods (Perfumery, &c.) for Christmas trade. If goods not approved of on receipt, money will be returned. In ordering kindly state highest price (Retail), beyond which articles should not be sent.

"FOR THE BLOOD IS THE LIFE."

Trade Mark—"BLOOD MIXTURE"
(Registered No. 3275.)

The Celebrated CURE for Scrofula, Scurvy, Eczema Blood and Skin Diseases, and Sores of all kinds.

WHOLESALE OF ALL THE WHOLESALE HOUSES.

SOLE PROPRIETORS:
THE LINCOLN & MIDLAND COUNTIES DRUG COMPANY, LINCOLN.

Counter Bills and Posters, with Name and Address, also Show Cards, on application. Printed matter supplied in any Language for Foreign Agents.

CAUTION.—The Proprietors will take immediate proceedings against all persons pirating their Trade Mark, "Blood Mixture," Labels, Wrappers &c., or Advertisements, or in any way infringing their rights.

WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

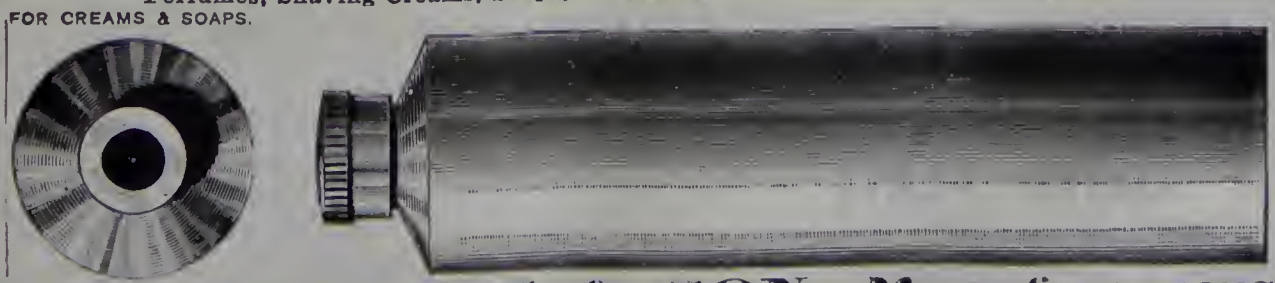
and is distinguishablo by the Trade Mark, printed in red and green, a facsimile of which is annexed Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

METALLIC COLLAPSIBLE TUBES FOR PAINTS,

Perfumes, Shaving Creams, Soaps, Oils, and all Fluid or Semi-Fluid Substances.

FOR CREAMS & SOAPS.



H. G. SANDERS & SON, Manufacturers,

Victoria Works, Victoria Gardens, Notting Hill Gate, LONDON, W.

TELEGRAPHIC ADDRESS· "COLLAPSIBLE LONDON." [3] ESTABLISHED 1820.

ORDER IN TIME FOR CHRISTMAS

TRADE MARK REGISTERED.

"BEAULETTE."

PATENTED.

WITH "BEAULETTE."

ACTUAL SIZE.

WITHOUT "BEAULETTE."

Under the title of "**BEAULETTE**" this ingenious little article has been invented to enable small manufacturers of perfumes and other similar preparations to finish their goods in equal style to those who employ skilled hands for the purpose. The woodcuts above show fully its advantages, and the cost being very trifling, it need hardly be pointed out that the general appearance of the goods and

THE WINDOWS IN WHICH THEY ARE DISPLAYED

are very much improved by its use.

DIRECTIONS.—Hold the "**BEAULETTE**" flat against the neck of the bottle in a line with the *centre of the label* with the left hand, then loop the elastic ring over the stopper or cork with the right.

PRICE **4**/- *PER GROSS.* *SOLD BY ALL THE LEADING WHOLESALE HOUSES.*

Sample Box, containing 3 dozen assorted colours, on receipt of 1/- P.O. to

BEAULETTE CO., 48 GREEK STREET, SOHO SQUARE, **LONDON, W.**

N.B.—THE WHOLESALE TRADE ONLY SUPPLIED DIRECT.

PURE OTTO OF ROSE,

SPECIALITY OF

SHIPKOFF & CO.

DISTILLERS AND EXPORTERS,

KIZANLIK, BULGARIA.

Agent for Great Britain—G. P. BAKER, 19 Ivy Lane, LONDON, E.C.

THE OTTO OF ROSE which this house distils and exports is known above all by the absolute purity of its quality and the unexcelled sweetness and strength of its odour. It is guaranteed to be the finest essence produced in the famous Rose Valley of Bulgaria.

Shipkoff's Brand received the only award for Otto of Rose at the Paris Exhibition.

THE LARGEST SALE

OF ANY

DENTIFRICE IN THE WORLD.

WOODS' ARECA NUT TOOTH PASTE.

Special terms sent on application for £5 worth.

WOODS & SON, Pharmacists, PLYMOUTH, ENGLAND.

DR. PAUL'S

HIGH-CLASS

MANICURE SPECIALITIES,

Certified as innocuous by eminent English and American Chemists.

	Retail	Wholesale per doz.
CERALINE. Fer tinting Finger Tips, Face and Lips	2/6	18/-
POUDRE LUSTRALE. Gives a brilliant shell-like transparency to the Nails	2/6	18/-
CRÈME CAMÉLIA. Restores Rough and Chapped Skins to their original softness	2/6	18/-
NAIL OLEATE. Preserves and gives a brilliant polish to the Nails, and prevents Hangnails, &c.	1/6	10/6
CLEANSING FLUID. Instantly removes all stains from the surface and underneath the Nails	2/6	18/-
FACE AND HANDS LOTION. Softens the Skin and removes all discoloration	4/6	33/-
EMERY BOARDS. For bevelling the rough edges of the Nails after use of the file per box	1/-	7/-

ORANGE WOOD STICKS.

A valuable novelty introduced in Dr. Paul's system of Manicure to apply the "Cleansing Fluid" under the free margin of Nails, and thus avoid the danger of scratching with steel instruments, 7/- per doz. bundles.

CAUTION!—Dr. Paul's Specialities can be obtained at all first-class Perfumers' and Chemists', but many imitations are offered at inferior Stores.

WHOLESALE AGENTS:

OSBORNE, GARRETT & CO., FRITH STREET, LONDON, W.C.

WINTER NECESSITIES.

Chemists may rely upon getting the very best quality goods, by ordering Chest Protectors and Respirators from

F. NEWBERY & SONS, 1 & 3 KING EDWARD STREET, LONDON, E.C.

CHEST PROTECTORS.

	No. 1	2	3	4	5	6
Scarlet Felt Single	6/	8/	9/6	11/6	15/6	24/6
Scarlet Felt Double	14/	18/6	22/6	28/	36/	44/
Vest shape, to button in front	18/	24/	30/	36/	42/	55/
Natural Grey or Fur-Felt Single	6/6	9/6	12/	15/6	20/	25/6
Natural Grey or Fur-Felt Double	15/	20/	25/6	31/	42/	51/6

RESPIRATORS.

	Per doz.
1/ Cork	7/
1/ Metallic	7/6
1/6 "	10/
2/ "	14/
2/6 "	17/
3/6 "	27/
5/ "	36/
6/ "	45/

Trade Mark. Registered.

THE

ASSOCIATION for the SUPPLY of PURE VACCINE LYMPH

12 PALL MALL EAST, LONDON, S.W.

SOLE AGENTS FOR DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each; Half Tubes, 1s. each. Pomade in vials, 5s.

HUMAN VACCINE, from healthy children only, microscopically examined and source quoted. Tubes two-thirds full, 1s. 8d. each; Tubes one-third full and Lancet-charged points, 1s. each; Pin-points, 1s. 1d. each. Eighteen charged Small Points, 5s. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin-points uncharged, 1s. per dozen. Vaccine Ejectors, 1s. 3d. each including postage. Vaccinations by appointment. P.O.Os (including postage, and crossed London and Westminster Bank) with orders, payable to EDWARD DARKE, *Secretary.*

Office hours, 10 to 4. Saturdays 10 to 2.

THE EASIEST THING IN THE WORLD

EASY'S POLISHING PASTE

FOR METALS, GLASS &c. NON INJURIOUS

A WONDERFUL POLISH.

EASY & CO. HANLEY STAFFORDSHIRE

LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

President—THE LORD EBURY. *Chairman*—MAJOR WM. VAUGHAN MORGAN.

Contains 90 Beds, and being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 2 Nurses for Ward Nursing and Nursing Invalids at their residences

G. A. CROSS, *Secretary-Superintendent.*

SELL LIKE RIPE CHERRIES

TOM BROOKS'S

SWEET SOLID PERFUMES."

Six odours, everlasting and delicious; pronounced far and away best on market.

Retail 2d. each, Wholesale 12/- per gross, ½ gross Carriage Paid.

SPECIAL OFFER.—A 2-dozen Box (assorted), as Sample, will be sent Post Free on receipt of 2/-

May be obtained of BARCLAY; EVANS, LESCHER & WEBB; BAISS BROTHERS, and all Wholesale Houses. [2]

TOM BROOKS, CHEMIST, HORNSEY, LONDON, N.

HOPGOOD & Co's HAIR NUTRITIVE & SEDATIVE CREAM

The only preparation for the Hair recommended by leading Physicians for the removal of Scurf, allaying irritation, preventing greyness and baldness, and producing a

LUXURIANT HEAD OF HAIR.

JOHN A. WALCOTT, M.D., M.R.C.S., says:—"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp, accumulation of dandriff and loss of hair, in each of which I have freely used it with UNFAILING SUCCESS."

In Bottles to Retail at 1s. 6d., 2s., 2s. 6d., 3s. 6d., 5s.

Revised Wholesale Prices, 12s. 6d., 16s. 6d., 20s., 30s., and 42s. per dozen. Supplied by all Wholesale Sundry Houses,

OR FROM THE DEPOT—

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A DECIDED "HIT"! (No Maker's Name on Label.)

6D. GLYCERINE & CUCUMBER JELLY.

Put up in Handsome 2-oz. Screw-cap Bottles, 3/6 per dozen (1 dozen in a box).

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PLEASE SEND FOR ANNUAL CATALOGUE.

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We wish to draw the attention of Chemists to the excellence of the spirit we supply for pharmaceutical purposes. We have devoted great care and attention to this branch and have made it a leading line.

That our efforts in this direction have been appreciated is proved by the number of *unsolicited* testimonials we have received from nearly every town in the country, of which the following is a specimen:—

GENTLEMEN,— The Pharmacy, Morecambe.

Please send 5 gall. 56 o.p. as before I have pleasure in saying I have always found your spirit answer all tests, which is more than I can say of all I have had from different places, and also to be practically free from odour.

Messrs. Stephen Smith & Co. Yours faithfully, JOSH. N. CUTTS, B.Sc., F.C.S.

SPECIALITY FOR PERFUMERY.

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

STEPHEN SMITH & CO., BOW, LONDON, E.

NET CASH WITH ORDER.

S 0/56 19/4 **V** 0/60 19/10 **R**

PERFECTLY PURE.

FIT FOR ANY PURPOSE.

PURE ORANGE WINE.

ST. ANDREW'S DISTILLERY 49 CLERKENWELL RD., E.C. GEORGE PHILLIPS & Co LONDON

S 0/61 2/7 **V** 0/64 2/8 **M**

FINEST QUALITY.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

METHYLATED SPIRIT & FINISH

Supplied of the best quality in wholesale quantities by

J. & W. HARVEY & CO., Distillers, Yoker, GLASGOW.

LONDON AGENTS—JAMES CHAMBERS & CO., 23 BIRCHIN LANE, CORNHILL, E.C.

JAMES BURROUGH, **S.V.R.** 56 o.p. 60 o.p.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALLHALLOWS' LANE, & BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

SILVER MEDAL S.M.E. 1884

THE ONLY MEDAL AWARDED FOR THIS SPECIALITY

CHLORIDE OF LIME!

IN AIRTIGHT WATERPROOF & ODOURLESS PACKAGES

INVENTORS AND MANUFACTURERS **NATIONAL CHEMICAL Co., LONDON**

THE N. C. Co. PACKAGES HAVE STOOD THE TEST FOR MANY YEARS, AND CAN ALWAYS BE RELIED UPON TO GIVE SATISFACTION.

KEPT IN STOCK BY ALL WHOLESALE DRUGGISTS &c. SEE THEIR PRICE LISTS.

SILVER MEDAL S.M.E. 1884

BEWARE OF OTHER SO-CALLED AIRTIGHT PACKAGES

PETROLEUM JELLY

(PARAFFINUM MOLLE, P.B.)

Extra Large 1*d*. Decorated Tin Boxes, at 6/6 per gross.
" " 2*d*. " " " 13 "
" " 3*d*. " " " 20 "
6*d*. Size 2-oz. Metallic Screw-capped Bottles, at .. .. 3/ per doz.
1*s*. Size 4-oz. Metallic Screw-capped Bottles, at .. .. 5/3 "
6*d*. Size 2 oz. Plain Bottles, Green Seal 2/6 "
1*s*. " 4 oz. " " " " 4/3 "
And in Bulk, from 30/ per Cwt., in Casks.

The above Quotations should interest all Buyers.

THE "CROWN" BRAND.
EQUAL TO
VASELINE.

THE
CROWN CHEMICAL WORKS,
York Road, Wandsworth,
LONDON, S.W.

AS A POLISH THE CLEANEST BRIGHTEST, AND BEST.

PYN-KA

THE POLISHING TABLET (Unsurpassed). AWARDED GOLD MEDAL.

Cleans with a Brilliant Polish Brass, Copper, Silver, Gold, White and other Metal, Electroware, Glassware, and other domestic articles. For Restaurants, Hotels, Bars, and Bicyclists.

TESTIMONIAL FROM A LADY.—"Your 'PYN-KA' Sample is the best I have tried, and we shall use no other cleaning preparation in our house. It will, I am convinced, supersede all other Polishing Pastes."

For Wholesale Terms apply to the Sole Vendors— **THE PYN-KA SYNDICATE, LIMITED, 41 LORD ST., LIVERPOOL.**

GOVERNMENT DISINFECTANT

CARBOLIC POWDER (PINK) in 1 Cwt. 2 Cwt. CASKS 1lb & ½ Packages
CARBOLIC POWDER (PINK, in Tins 6d & 1/-
CARBOLIC FLUID in 6d 1/ & 1/6 STOPPERED BOTTLES
CARBOLIC SOAP No. 1 & No. 2
CARBOLIC & GLYCERINE SOAP in ¼lb. TABS
FREE FROM POISON—AGREEABLE IN SMELL.
THE GOVERNMENT SANITARY Co., LONDON, E.
TO BE HAD FROM ALL WHOLESALE DRUGGISTS.

100 % PURE POTASS. CYANIDE.

FREDK. BOEHM,
BILLITER
SQUARE
BUILDINGS,
London.

THE "BROMPTON" BRONCHITIS KETTLE

(PATENT).

The Lancet, Sept. 26, says: "These kettles represent a distinct improvement on the ordinary patterns of steam producers for the benefit of sufferers from bronchitis."

CANNOT UPSET.

Top of Fire Free for Other Purposes.

TAP FOR HOT WATER.

Can be had of the leading Druggists' Sundrymen.

SOLE LICENSEES:
BENHAM & FROUD, LIM.
CHANDOS STREET, W.C.
(WHOLESALE ONLY.)

SPECIALITIES—

OLIVE OIL (Cream White),
OLIVE MACHINERY OIL,

Dry Oranges, Orris Root, Juniper Berries, Honey (White), Sulphur (Sublime), Essence of Lemon, Essence of Bergamotte,

ACETIC ACID, CHEM. PURE,
CORKS OF EVERY DESCRIPTION,
LEGRAND'S IRON DRUMS.

Samples and Quotations on application.

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Telegraphic Address—"POLITICS LONDON."

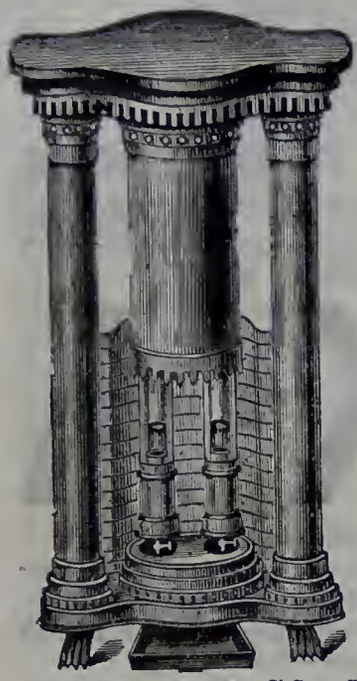
TO CHEMISTS AND DRUGGISTS.

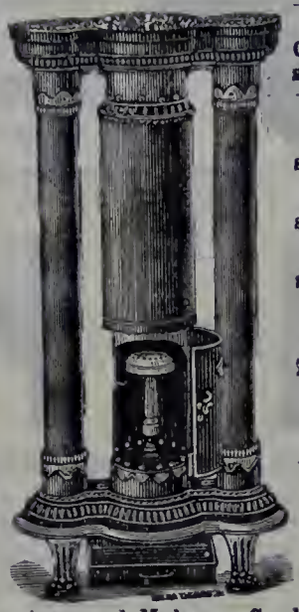
AGENTS WANTED FOR THE SALE OF CLARK'S PATENT

"SYPHON" (REGISTERED TITLE) HYGIENIC CONDENSING GAS HEATING-STOVES.

NO FLUE REQUIRED. ARE FREE FROM SMELL OR SMOKE.

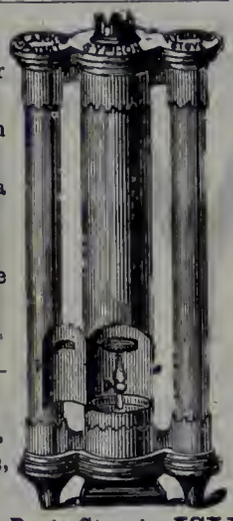
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.





For Use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Churches, Schools, &c.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.



For Terms, Particulars, and Prices, apply to

S. CLARK & CO., Patentees and Makers, Syphon Works, Park Street, ISLINGTON, LONDON, N.

Telegraphic Address—"SYPHON STOVES LONDON." Wholesale Agents—Messrs. MAW, SON & THOMPSON, Aldersgate Street, London, E.C.

Used on the Royal Farms at Windsor, Osborne, and Sandringham, and by the principal Stockbreeders everywhere for nearly 60 years.

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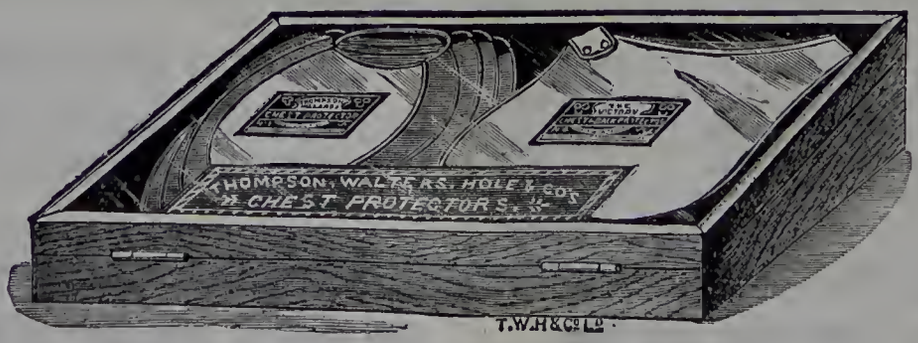

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